BOSTER
antibody and ELISA experts

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Anti-C1orf77/FOP/CHTOP Antibody Picoband™

Catalog Number: A07770-2

About CHTOP

This gene encodes a small nuclear protein that is characterized by an arginine and glycine rich region. This protein may have an important role in the regulation of fetal globin gene expression and in the activation of estrogen-responsive genes. A recent study reported that this protein binds 5-hydroxymethylcytosine (5hmC) and associates with an arginine methyltransferase complex (methylosome), which promotes methylation of arginine 3 of histone H4 (H4R3) and activation of genes involved in glioblastomagenesis. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.

Overview

Product Name	Anti-C1orf77/FOP/CHTOP Antibody Picoband™
Reactive Species	Human, Monkey, Mouse, Rat
Description	Boster Bio Anti-C1orf77/FOP/CHTOP Antibody Picoband™ catalog # A07770-2. Tested in Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Monkey, Mouse, Rat.
Application	Flow Cytometry, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q9Y3Y2

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human C1orf77/FOP/CHTOP, identical to the related mouse and rat sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.

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Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.25-0.5 ug/ml, Human, Monkey, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human Flow Cytometry, 1-3 ug/1x10^6 cells, Human, Rat

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Anti-C1orf77/FOP/CHTOP Antibody Picoband™ (A07770-2) Images

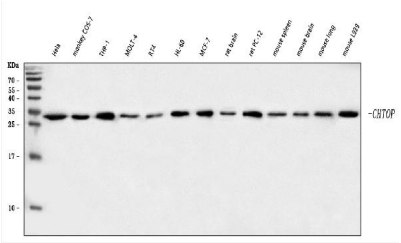

Figure 1. Western blot analysis of C1orf77/FOP/CHTOP using anti-C1orf77/FOP/CHTOP antibody (A07770-2).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: monkey COS-7 whole cell lysates,
Lane 3: human THP-1 whole cell lysates,
Lane 4: human MOLT-4 whole cell lysates,
Lane 5: human RT4 whole cell lysates,
Lane 6: human HL-60 whole cell lysates,
Lane 7: human MCF-7 whole cell lysates,
Lane 8: rat brain tissue lysates,
Lane 9: rat PC-12 whole cell lysates,
Lane 10: mouse spleen tissue lysates,
Lane 11: mouse brain tissue lysates,
Lane 12: mouse lung tissue lysates,
Lane 13: mouse L929 whole cell lysates.
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-C1orf77/FOP/CHTOP antigen affinity purified polyclonal antibody (Catalog # A07770-2) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for C1orf77/FOP/CHTOP at approximately 28 kDa. The expected band size for C1orf77/FOP/CHTOP is at 26 kDa.

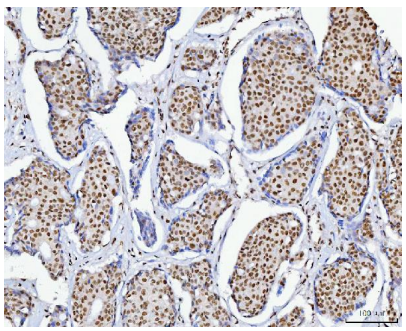

Figure 2. IHC analysis of C1orf77/FOP/CHTOP using anti-C1orf77/FOP/CHTOP antibody (A07770-2).
C1orf77/FOP/CHTOP was detected in a paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-C1orf77/FOP/CHTOP Antibody (A07770-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

Figure 3. IHC analysis of C1orf77/FOP/CHTOP using anti-C1orf77/FOP/CHTOP antibody (A07770-2).
C1orf77/FOP/CHTOP was detected in a paraffin-embedded section of human colorectal adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer

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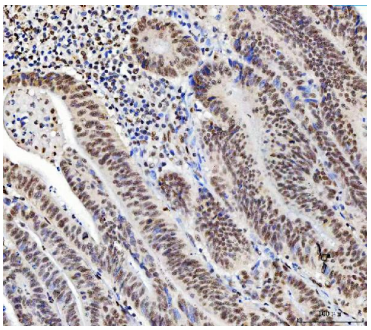

(pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-C1orf77/FOP/CHTOP Antibody (A07770-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

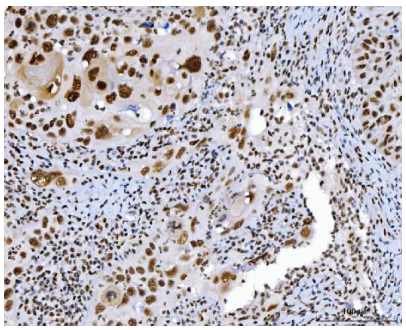

Figure 4. IHC analysis of C1orf77/FOP/CHTOP using anti-C1orf77/FOP/CHTOP antibody (A07770-2). C1orf77/FOP/CHTOP was detected in a paraffin-embedded section of human laryngeal squamous cell carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-C1orf77/FOP/CHTOP Antibody (A07770-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

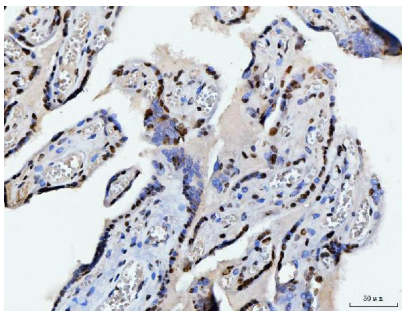

Figure 5. IHC analysis of C1orf77/FOP/CHTOP using anti-C1orf77/FOP/CHTOP antibody (A07770-2). C1orf77/FOP/CHTOP was detected in a paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-C1orf77/FOP/CHTOP Antibody (A07770-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

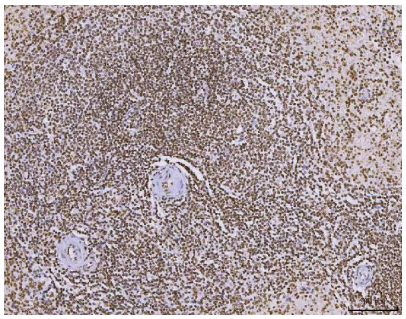

Figure 6. IHC analysis of C1orf77/FOP/CHTOP using anti-C1orf77/FOP/CHTOP antibody (A07770-2). C1orf77/FOP/CHTOP was detected in a paraffin-embedded section of human spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-C1orf77/FOP/CHTOP Antibody (A07770-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

Figure 7. IHC analysis of C1orf77/FOP/CHTOP using anti-

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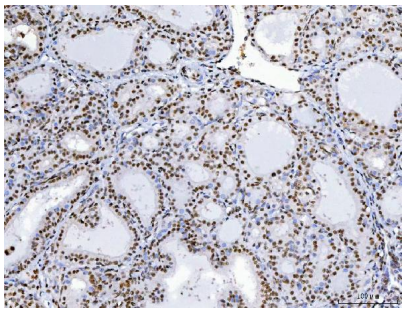

C1orf77/FOP/CHTOP antibody (A07770-2).
C1orf77/FOP/CHTOP was detected in a paraffin-embedded section of human thyroid cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-C1orf77/FOP/CHTOP Antibody (A07770-2) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

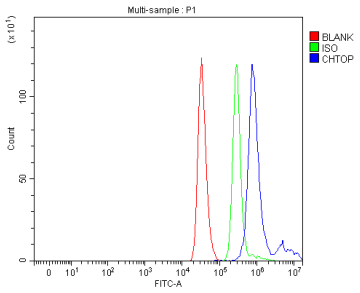

Figure 8. Flow Cytometry analysis of THP-1 cells using anti-C1orf77/FOP/CHTOP antibody (A07770-2).
Overlay histogram showing THP-1 cells stained with A07770-2 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-C1orf77/FOP/CHTOP Antibody (A07770-2, 1 ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

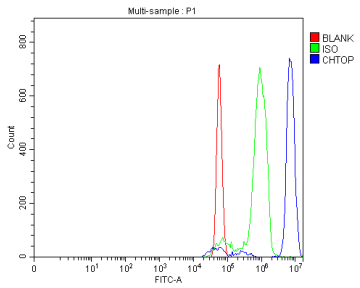

Figure 9. Flow Cytometry analysis of RH35 cells using anti-C1orf77/FOP/CHTOP antibody (A07770-2).
Overlay histogram showing RH35 cells stained with A07770-2 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-C1orf77/FOP/CHTOP Antibody (A07770-2, 1 ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.