

# **Anti-KMO Antibody Picoband™**

Catalog Number: A05469-3

#### **About KMO**

Kynurenine 3-monooxygenase is an enzyme that in humans is encoded by the KMO gene. This gene encodes a mitochondrion outer membrane protein that catalyzes the hydroxylation of L-tryptophan metabolite, L-kynurenine, to form L-3-hydroxykynurenine. Studies in yeast identified this gene as a therapeutic target for Huntington disease.

#### Overview

Product Name	Anti-KMO Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-KMO Antibody Picoband™ catalog # A05469-3. Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, 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	O15229

#### **Technical Details**

Immunogen	E.coli-derived human KMO recombinant protein (Position: F26-N372).	
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.	
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.	



# BOSTER BIOLOGICAL TECHNOLOGY 3942 B Valley Ave, Pleasanton, CA 94566

888-466-3604 | support@bosterbio.com | www.bosterbio.com

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, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human, Mouse,Rat Flow Cytometry, 1-3 ug/1x10 <sup>6</sup> cells, Human, Mouse Direct ELISA, 0.1-0.5 ug/ml, Human



### Anti-KMO Antibody Picoband™ (A05469-3) Images

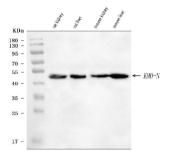


Figure 1. Western blot analysis of KMO using anti-KMO antibody (A05469-3).

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: rat kidney tissue lysates,

Lane 2: rat liver tissue lysates,

Lane 3: mouse kidney tissue lysates,

Lane 4: mouse liver tissue 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-KMO antigen affinity purified polyclonal antibody (Catalog # A05469-3) 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 KMO at approximately 50 kDa. The expected band size for KMO is at 56 kDa.

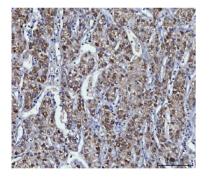


Figure 2. IHC analysis of KMO using anti-KMO antibody (A05469-3).

KMO was detected in a paraffin-embedded section of human liver 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-KMO Antibody (A05469-3) 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.

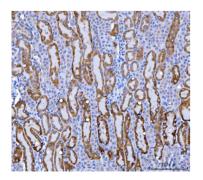


Figure 3. IHC analysis of KMO using anti-KMO antibody (A05469-3).

KMO was detected in a paraffin-embedded section of mouse kidney 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-KMO Antibody (A05469-3) 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.



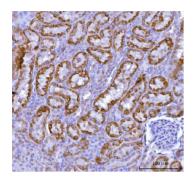


Figure 4. IHC analysis of KMO using anti-KMO antibody (A05469-3).

KMO was detected in a paraffin-embedded section of rat kidney 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-KMO Antibody (A05469-3) 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.

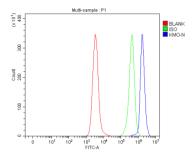


Figure 5. Flow Cytometry analysis of Daudi cells using anti-KMO antibody (A05469-3).

Overlay histogram showing Daudi cells stained with A05469-3 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-KMO Antibody (A05469-3, 1 ug/1x $10^6$  cells) for 30 min at 20°C. DyLight® 488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x $10^6$  cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x $10^6$ ) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

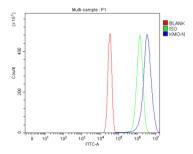


Figure 6. Flow Cytometry analysis of Neuro-2a cells using anti-KMO antibody (A05469-3).

Overlay histogram showing Neuro-2a cells stained with A05469-3 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-KMO Antibody (A05469-3, 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.

## Submit a product review to Biocompare.com





Submit a review of this product to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.

Anti-KMO Antibody