

Anti-Fas Antibody Picoband®

Catalog Number: PA1119

About Fas

FAS (also known as surface antigen APO1 or CD95) is a member of the tumour-necrosis receptor factor family of death receptors, can induce apoptosis or, conversely, can deliver growth stimulatory signals. It acts as an inducer of both neurite growth in vitro and accelerated recovery after nerve injury in vivo. Fas antigen is expressed and functional on papillary thyroid cancer cells and this may have potential therapeutic significance. The FAS antigen shows structural homology with a number of cell surface receptors, including tumor necrosis factor (TNF) receptors and the low-affinity nerve growth factor receptor (NGFR) and is mapped to 10q24.1. And the FAS and FASL system plays a key role in regulating apoptotic cell death and corruption of this signalling pathway has been shown to participate in immune escape and tumorigenesis.

Overview

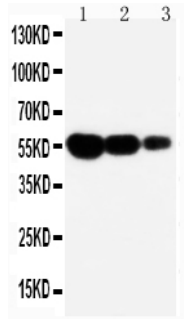
Product Name	Anti-Fas Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Fas Antibody catalog # PA1119. Tested in IHC, WB applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store 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 freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q63199

Technical Details

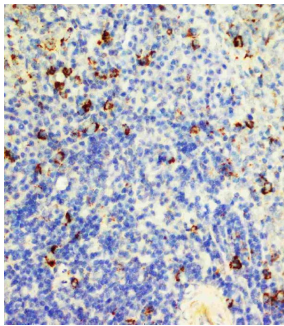
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of rat Fas.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and IHC(F).

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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Mouse, Rat Immunohistochemistry (Frozen Section), 0.5-1ug/ml, Mouse, Rat , - Western blot, 0.1-0.5ug/ml, Mouse, Rat

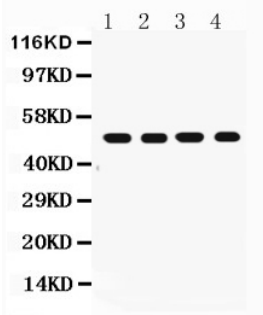
Anti-Fas Antibody Picoband® (PA1119) Images



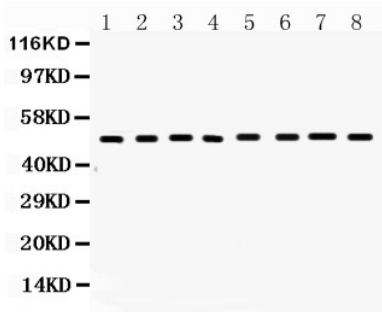
Anti-Fas antibody, PA1119, Western blotting
Lane 1: Recombinant Mouse FAS Protein 10ng
Lane 2: Recombinant Mouse FAS Protein 5ng
Lane 3: Recombinant Mouse FAS Protein 2.5ng



Anti-Fas antibody, PA1119, IHC(P)
IHC(P): Rat Spleen Tissue Lysate

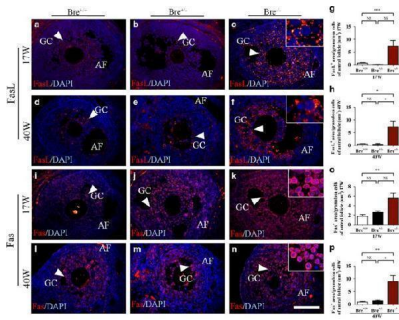


Western blot analysis of FAS expression in rat liver extract (lane 1), rat spleen extract (lane 2), rat brain extract (lane 3) and rat cardiac muscle extract (lane 4). FAS at 50KDa was detected using rabbit anti-FAS Antigen Affinity purified polyclonal antibody (Catalog # PA1119) at 0.5 ug/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).

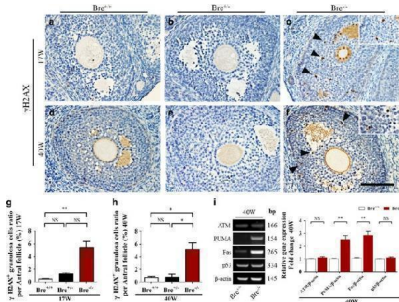


Western blot analysis of FAS expression in mouse liver extract (lane 1), mouse spleen extract (lane 2), mouse brain extract (lane 3) mouse kidney extract (lane 4), mouse thymus extract (lane 5), mouse lung extract (lane 6), HEPA1-6 whole cell lysates (lane 7) and NIH3T3 whole cell lysates (lane 8). FAS at 50KDa was detected using rabbit anti-FAS Antigen Affinity purified polyclonal antibody (Catalog # PA1119) at 0.5 ug/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).

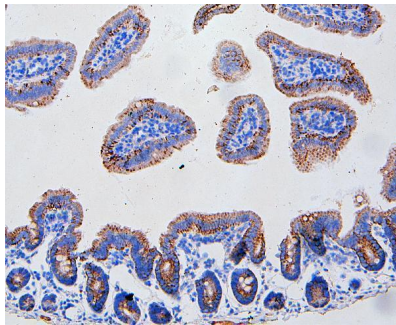
Ovarian sections stained for FasL and Fas expression. Representative micrographs of antral follicles immunofluorescently stained for FasL (a-f) and Fas (i-n) expression in 17- and 40-week-old BRE +/+ , BRE +/- and BRE -/- ovaries. Higher-magnification images are highlighted at top right corners of c , f , k and n . (g and h) Bar charts showing areas that are FasL + over the total



granulosa cell area of antral follicles, in 17- (G) and or 40- (h) week-old BRE +/+ , BRE +/- and BRE -/- ovaries. (o and p) Bar charts showing areas that are Fas + over the total granulosa cell area of antral follicles, in 17- (o) and or 40- (p) week-old BRE +/+ , BRE +/- and BRE -/- ovaries. AF, antral follicle; GC, granulosa cells. Scale bar=100 u m in a - n Index in PubMed under a CC BY license. PMID: 28333135



Ovarian sections stained for gamma -H2AX. (a-f) Representative micrographs of 17- and 40-week-old BRE +/+ , BRE +/- and BRE -/- ovarian sections immunohistochemically stained for gamma -H2AX (marker for DNA double-strand breaks). Higher-magnification image at the top right corner is taken from c and f . (g and h) Bar charts comparing the average number of gamma -H2AX + granulosa cells in antral follicles of 17- (g) and 40- (h) week-old BRE +/+ , BRE +/- and BRE -/- ovaries. (i) Semiquantitative RT-PCR analysis showing ATM, PUMA, Fas and p53 expression in 40-week-old BRE +/+ and BRE -/- ovaries. The accompanying bar chart indicates the normalized and averaged expression of these genes. Scale bar=100 u m in a - f Index in PubMed under a CC BY license. PMID: 28333135



IHC analysis of FAS using anti-FAS antibody (PA1119). FAS was detected in paraffin-embedded section of mouse intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-FAS Antibody (PA1119) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

21 Publications Citing This Product

1. PubMed ID: -, Lanfen Chen,Wei Chen,Mengbei Zhang et al.Comparison of therapeutic effects of melatonin by two different routes in focal cerebral ischemic rats.Journal of Neurorestoratology 2019,07(01):47-53.
2. PubMed ID: -, Yan Zhang,Linchao Zhang,JiaLu Bao et al.Perfluorooctanoic Acid Exposure in Early Pregnancy Induces Oxidative Stress in The Uterus and Liver in Mice,13 February 2021,PREPRINT (Version 1) available at Research Square [https://doi.org/10.21203/rs.3.rs-160447
3. PubMed ID: 26063084, Liu Mw, Su Mx, Zhang W, Zhang Lm, Wang Yh, Qian Cy. Int J Mol Med. 2015 Aug;36(2):386-98. Doi: 10.3892/Ijmm.2015.2241. Epub 2015 Jun 10. Rhodiola Rosea Suppresses Thymus T-Lymphocyte Apoptosis By Downregulating Tumor Necrosis Factor-??-Induced Pro...

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Anti-Fas Antibody

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