

CD95/FAS Rabbit pAb

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Catalog # AP52173

Product Information

Application	WB
Primary Accession	Q63199
Reactivity	Rat, Human, Mouse
Predicted	Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36835
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from rat FAS
Epitope Specificity	35-110/327
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Isoform 1: Cell membrane; Single-pass type I membrane protein. Isoform 2, 3, 4, 5, 6: Secreted.
DISEASE	Defects in FAS are the cause of autoimmune lymphoproliferative syndrome type 1A (ALPS1A) [MIM:601859]; also known as Canale-Smith syndrome (CSS). ALPS is a childhood syndrome involving hemolytic anemia and thrombocytopenia with massive lymphadenopathy and splenomegaly.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor contains a death domain. It has been shown to play a central role in the physiological regulation of programmed cell death, and has been implicated in the pathogenesis of various malignancies and diseases of the immune system. The interaction of this receptor with its ligand allows the formation of a death-inducing signaling complex that includes Fas-associated death domain protein (FADD), caspase 8, and caspase 10. The autoproteolytic processing of the caspases in the complex triggers a downstream caspase cascade, and leads to apoptosis. This receptor has been also shown to activate NF-kappaB, MAPK3/ERK1, and MAPK8/JNK, and is found to be involved in transducing the proliferating signals in normal diploid fibroblast and T cells. Several alternatively spliced transcript variants have been described, some of which are candidates for nonsense-mediated mRNA decay (NMD). The isoforms lacking the transmembrane domain may negatively regulate the apoptosis mediated by the full length isoform. [provided by RefSeq, Mar 2011]

Additional Information

Gene ID	246097
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Other Names	Tumor necrosis factor receptor superfamily member 6, Apo-1 antigen, Apoptosis-mediating surface antigen FAS, FASLG receptor, CD95, Fas, Apt1, Tnfrsf6
Dilution	WB=1:500-2000,Flow-Cyt=2 µg/Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Fas
Synonyms	Apt1, Tnfrsf6
Function	Receptor for TNFSF6/FASLG. The adapter molecule FADD recruits caspase CASP8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs CASP8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis. FAS-mediated apoptosis may have a role in the induction of peripheral tolerance, in the antigen- stimulated suicide of mature T-cells, or both (By similarity).
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:P51867}; Single-pass type I membrane protein {ECO:0000250 UniProtKB:P51867} Membrane raft {ECO:0000250 UniProtKB:P25445}

Background

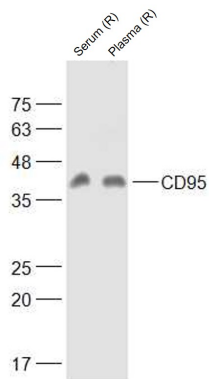
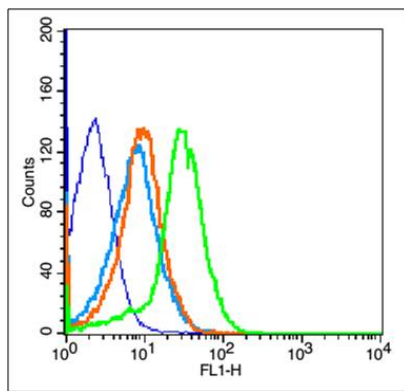
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References

Watanabe-Fukunaga R.,et al.J. Immunol. 148:1274-1279(1992).
Koczan D.,et al.Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases.
Carninci P.,et al.Science 309:1559-1563(2005).
Villa-Morales M.,et al.Cancer Res. 67:5107-5116(2007).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

Images

Blank control(blue):Mouse Kidney (fixed with 2% paraformaldehyde for 10 min at 37°C). Primary Antibody:Rabbit Anti-CD95/FAS antibody (AP52173,Green); Dilution: 1 µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions; Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.



Sample: serum (Rat) at 40 ug plasma (Rat) at 40 ug
 Primary: Anti-CD95 (AP52173) at 1/1000 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 34 kD Observed band size: 42 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.