

Product Specification Sheet

Human FAS/TNFRSF6 (CD95) antibodies

Cat. # FAS23-M Mouse Monoclonal Anti-Human FAS/TNFRSF6 (CD95) protein IgG, aff pure (FAS Blocking antibody)
SIZE: 100 ug

The FAS receptor (FasR) also known as apoptosis antigen 1 (APO-1 or APT), cluster of differentiation 95 (CD95) or tumor necrosis factor receptor superfamily member 6 (TNFRSF6) is a protein that in humans is encoded by the TNFRSF6 gene. The Fas receptor is a death receptor on the surface of cells that leads to programmed cell death (apoptosis). It is one of two apoptosis pathways, the other being the mitochondrial pathway. FasR is located on chromosome 10 in humans and 19 in mice. Similar sequences related by evolution (orthologs) are found in most mammals. FAS receptor is located on the long arm of chromosome 10 (10q24.1) in humans and on chromosome 19 in mice.

FasR has many as eight splice variants, which are translated into seven isoforms of the protein. Apoptosis-inducing Fas receptor is dubbed isoform 1 and is a type 1 transmembrane protein. The mature Fas protein has 319 amino acids, has a predicted molecular weight of 48 kiloDaltons and is divided into 3 domains: an extracellular domain, a transmembrane domain, and a cytoplasmic domain. The extracellular domain has 157 amino acids and is rich in cysteine residues. The transmembrane and cytoplasmic domains have 17 and 145 amino acids respectively. Exons 1 through 5 encode the extracellular region. Exon 6 encodes the transmembrane region. Exons 7-9 encode the intracellular region. Fas forms the death-inducing signaling complex (DISC) upon ligand binding. Membrane-anchored Fas ligand trimer on the surface of an adjacent cell causes trimerization of Fas receptor. This event is also mimicked by binding of an agonistic Fas antibody as well. Upon ensuing death domain (DD) aggregation, the receptor complex is internalized via the cellular endosomal machinery. This allows the adaptor molecule FADD to bind the death domain of Fas through its own death domain.

Synonyms: FASLG receptor, Apoptosis-mediating surface antigen FAS, Apo-1 antigen, CD95, Tumor necrosis factor receptor superfamily member 6 TNRF6, APT1, FAS1, TNFRSF6.

Source of Antigen and Antibodies

Antigen	Recombinant human FAS protein
Antibody host/type	Mouse, monoclonal affinity purified IgG1, Cat # FAS23-M
Secondary Ab	Cat # 40320, rabbit anti-mouse IgG-HRP (AP, biotin, FITC conjugates also available) or Goat Anti-mouse IgG1-HRP (#40216)
Negative Control Ab	Non-immune mouse IgG (Cat # 20008-1) isotype control be used as -ve control for ELISA, WB, IHC etc.

Isotype Controls

Catalog#	ProdDescription
20102-101	Mouse IgG1 isotype control, purified
20102-101-1	Mouse IgG1 isotype control, purified
20102-101-APC	Mouse IgG1-APC conjugate (isotype control)
20102-101-B	Mouse IgG1-Biotin conjugate (isotype control)
20102-101-F	Mouse IgG1-FITC conjugate (isotype control)
20102-101-FP	Mouse IgG1-FITC-PE conjugate (isotype control)
20102-101-HP	Mouse IgG1-HRP conjugate (isotype control)
20102-101-PC5	Mouse IgG1-PE-Cy5 conjugate (isotype control)
20102-101-PE	Mouse IgG1-PE conjugate (isotype control)

Form & Storage

Aff Pure (purified) 100 ul/vial
Reconstitute powder in PBS

Storage

Short-term: unopened, undiluted vials for less than a week at 4oC.

Long-term: at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at -20oC or below.

Recommended Usage

ELISA: 1:0.1-1 ug/ml;
Western: 1-5 ug/ml

FAS23-M antibody is a BLOCKING antibody when in soluble form and will block FAS-mediated apoptosis. It will ACTIVATE FAS-mediated killing when immobilized. Antibody reacts with human FAS. Other species not tested. Recombinant human soluble FAS protein ~18 Kda (#RP-943) and FAS-his tag (157-320 aa) is available for control studies or for ELISA/Western control.

References: Inazawa J (1992) Genomics 14, 821-822; Wajant H (2002) Science 296, 1635-1636; Chen L (2010) Nature 465, 492-496; Jung YS (2001) BBRC 288, 420-426

*This product is for In vitro research use only.

Related material available from ADI

AB-20410	Mouse	Anti-Human	FAS (CD95) Blocking antibody IgG
AB-20510	Mouse	Anti-Human	FAS (CD95) Activating antibody IgG
FAS21-M	Rat-Anti-mouse	FAS/TNFRSF6	(CD95) protein IgG
FAS22-M	Mouse-Anti-human	FAS/TNFRSF6	(CD95) protein IgG, aff pure (FAS)
FASL16-C	Recombinant purified Mouse	FAS Ligand	(FASL/CD95L) protein control for
RP-943	Recombinant Human	CD95	
FAS23-M	120711A		

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