

Fas recombinant antibody

Anti-Fas [R-125224]

CATALOG # AAA72007	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay, ELISA
------------------------------	----------------------------	--

PRODUCT SYNONYMS

Fas; Monoclonal Recombinant Antibody; Anti-Fas [R-125224]; h-HFE7A; Tumor necrosis factor receptor superfamily member 6; CD95; CD-95; Apo-1; Apo 1; Apo-1 antigen; Apoptosis-mediating surface antigen FAS; FASLG receptor; Fas recombinant antibody

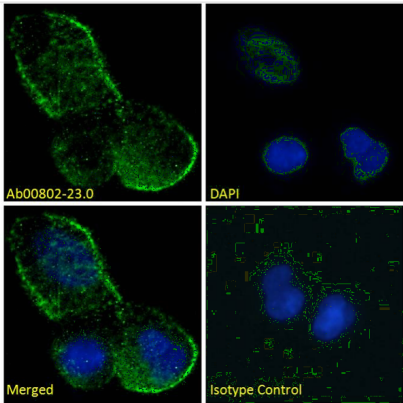
PRODUCT SPECIFICATIONS

Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG, Kappa
Clone Number	R-125224
Specificity	R-125224 binds to the extracellular portion of human Fas at an epitope consisting of the sequence RTQNTKCRCK (aa 105-114) (pmid: 11754745). Fas is a type I membrane protein which belongs to the tumor necrosis factor (TNF) receptor/nerve growth factor (NGF) receptor superfamily. It is able to transduce apoptotic signals into the cell when bound by its ligand FasL (Fas ligand), which is primarily expressed in activated T lymphoid-myeloid lineage cells, in the eye, in reproductive organs and in some tumors. The Fas-FasL system is known to play an important role in maintaining the immune system as mice with Fas-defective lymphoproliferation (lpr) and FasL-defective generalized lymphoproliferative disease (gld) mutations develop massive lymphadenopathy and autoimmune diseases.
Purity/Purification	Protein A Affinity Purified
Concentration	1 mg/ml (varies by lot)
Sequence Length	335
Applicable Applications for Fas recombinant antibody	FCM/FACS (Flow Cytometry), ELISA
Immunogen	R-125224 is generated by the humanization of the murine HFE7A anti-Fas antibody by grafting the CDR regions to the framework regions of the human 8E10 antibody and substituting key framework residues from the murine antibody into the 8E10 sequence. The original HFE7A was derived from a hybridoma cell line generated by the fusion of NS1 myeloma cells with splenocytes from Fasdeficient mice which had been immunized with partially purified recombinant human Fas-AIC2A chimera protein consisting of the extracellular region of human Fas antigen (aa-16 to 150) and the extracellular region of the murine IL-3 receptor AIC2 (aa 3-423). The HFE7A hybridoma was selected after screening by flow cytometry for the production of antibodies with the ability to bind to the WR19L12a transformed murine T cell lymphoma cell line expressing human Fas or the L5178YA1 cell line expressing murine Fas, but not to the parental WR19L or L5178Y cells.
Buffer Composition	PBS only with 0.02% Proclin 300.
Chimeric Use Statement	This chimeric rabbit antibody was made using the variable domain sequences of the original Human IgG1 format, for improved compatibility with existing reagents, assays and techniques.
Labeled Substance	None
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



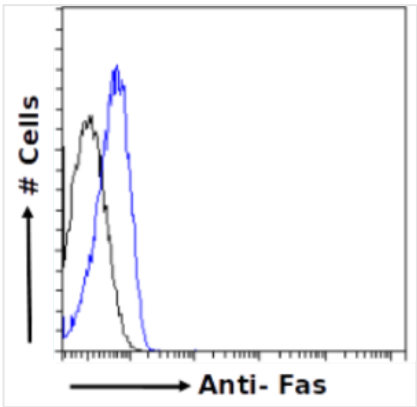
WB (Western Blot)

Western Blot using anti-Fas antibody R-125224 (Ab00802) Human testis (A) and human ovary (B) lysate samples (35ug protein in RIPA buffer) were resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit IgG version of R-125224 (Ab00802-23.0) at 2 ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence. The expected running size for unmodified Fas is 37.7kDa, but this protein is glycosylated at several positions leading to the observed running size.



IF (Immunofluorescence)

Immunofluorescence staining of fixed MCF7 cells with anti-Fas antibody R-125224 (Ab00802) Immunofluorescence analysis of paraformaldehyde fixed MCF7 cells permeabilized with 0.15% Triton and stained with the chimeric mouse IgG1 version of R-125224 (Ab00802-23.0) at 10 ug/ml for 1h followed by Alexa Fluor® 488 secondary antibody (2 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom Ab00802-23.0, DAPI, merged channels and an isotype control. The isotype control was stained with an anti-unknown specificity antibody (Ab178-23.0) followed by Alexa Fluor® 488 secondary antibody.



FCM/FACS (Flow Cytometry)

Flow-cytometry using the anti-Fas antibody R-125224 (Ab00802) Jurkat cells were fixed using 2% PFA, permeabilised using 0.5% Triton and stained with unimmunized rabbit IgG antibody (MOPC-21; isotype control, black line) or the rabbit IgG-chimeric version of R-125224 (Ab00802-23.0, blue line) at a dilution of 1:100 for 1h at RT. After washing, bound antibody was detected using a goat anti-rabbit IgG AlexaFluor® 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.

ADDITIONAL INFORMATION

Related Product Information for Fas recombinant antibody	Recombinant monoclonal antibody to Fas. Manufactured using a proprietary Recombinant Platform with variable regions (i.e. specificity) from the hybridoma R-125224. R-125224 is generated by the humanization of the murine HFE7A anti-Fas antibody by grafting the CDR regions to the framework regions of the human 8E10 antibody and substituting key framework residues from the murine antibody into the 8E10 sequence. The original HFE7A was derived from a hybridoma cell line generated by the fusion of NS1 myeloma cells with splenocytes from Fas-deficient mice which had been immunized with partially purified recombinant human Fas-AIC2A chimera protein consisting of the extracellular region of human Fas antigen (aa-16 to 150) and the extracellular region of the murine IL-3 receptor AIC2 (aa 3-423). The HFE7A hybridoma was selected after screening by flow cytometry for the production of antibodies with the ability to bind to the WR19L12a transformed murine T cell lymphoma cell line expressing human Fas or the L5178YA1 cell line expressing murine Fas, but not to the parental WR19L or L5178Y cells.
Product Categories/Family for Fas recombinant antibody	RA; Oncology; Cancer; Biosimilar

References	Haruyama et al. Humanization of the Mouse Anti-Fas Antibody HFE7A and Crystal Structure of the Humanized HFE7A Fab Fragment Biol. Pharm. Bull. 25(12) 1537—1545 (2002) PMID:12499636
------------	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507583
NCBI GeneID	355
NCBI Accession #	NP_000034.1
NCBI GenBank Nucleotide #	NM_000043.6
UniProt Accession #	P25445; Q14292; Q14293; Q14294; Q14295; Q16652; Q5T9P1; Q5T9P2; Q5T9P3; Q6SSE9; A9UJX4; B6VNV4
Molecular Weight	11,435 Da
NCBI Official Full Name	tumor necrosis factor receptor superfamily member 6 isoform 1
NCBI Official Synonym Full Names	Fas cell surface death receptor
NCBI Official Symbol	FAS
NCBI Official Synonym Symbols	APT1; CD95; FAS1; APO-1; FASTM; ALPS1A; TNFRSF6
NCBI Protein Information	tumor necrosis factor receptor superfamily member 6
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 6
UniProt Gene Name	FAS
UniProt Synonym Gene Names	APT1; FAS1; TNFRSF6

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
 Online datasheet: <https://stage.aaabiotech.com/monoclonal/fas-recombinant-antibody-clone-r-125224-flow-cytometry-elisa/72007>