

Feline Fas/TNFRSF6/CD95 Alexa Fluor® 750-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 431014

Catalog Number: FAB2267S

100 µg

DESCRIPTION		
Species Reactivity	Feline	
Specificity	Detects feline Fas/TNFRSF6/CD95 in direct ELISAs and Western blots. In direct ELISAs and Western blots no cross-reactivity with recombinant human Fas, recombinant mouse Fas, or recombinant rat Fas are observed	
Source	Monoclonal Mouse IgG ₁ Clone # 431014	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Mouse myeloma cell line NS0-derived recombinant feline Fas/TNFRSF6/CD95 Ala25-Lys172 Accession # NP_001009314	
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm	
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.	
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Shee (SDS) for additional information and handling instructions.	

	Recommended Concentration	Sample
low Cytometry	0.25-1 μg/10 ⁶ cells	Feline peripheral blood mononuclear cells treated with PMA and Ca ²⁺ ionomycin

BACKGROUND

Stability & Storage

Feline Fas (fibroblast associated; also named CD95 and APO-1) is a 45 kDa type I transmembrane (TM) glycoprotein that is a member of the TNF receptor superfamily (1-3). The family contains about 30 members, and is characterized by the presence of at least one cysteine-rich domain that contains multiple intrachain disulfide bonds. In general, the superfamily is divided into cytoplasmic death domain (DD) containing, and non-DD containing receptors (3). Feline Fas is synthesized as a 314 amino acid (aa) precursor that contains a 24 aa signal sequence, a 148 aa extracellular region, a 16 aa TM segment, and a 126 aa cytoplasmic tail (4). The extracellular region contains four potential N-linked glycosylation sites plus two distinct cysteine-rich domains of approximately 40 aa each; the cytoplasmic tail shows a 45 aa DD. The extracellular region of feline Fas shares 68%, 65%, 53%, and 58% aa sequence identity to porcine, human, mouse, and rat Fas, respectively. There are five alternate splice forms of feline Fas, which vary from 132 aa to 209 aa in length. All utilize exons 1-3 (aa 1-111) and all are missing the transmembrane segment of the full length form (5). Circulating Fas is reported to be both a dimer and trimer at low ng/mL concentrations. The ligand for Fas is FasL, and Fas ligation activates both the MEK cascade and FADD/caspase-8 pathway (7).

References:

- Locksley, R.M. et al. (2001) Cell 104:487.
- Gaur, U. and B.B. Aggarwal (2003) Biochem. Pharmacol. 66:1403.

Protect from light. Do not freeze.

12 months from date of receipt, 2 to 8 °C as supplied.

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- 6. Knipping, E. et al. (1995) Blood 85:1562.
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