

Rat Fas/TNFRSF6/CD95 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF2159

DESCRIPTION	
Species Reactivity	Rat
Specificity	Detects rat Fas/TNFRSF6/CD95 in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human Fas, recombinant mouse Fas, and recombinant feline Fas is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat Fas/TNFRSF6/CD95 Gln22-Lys170 Accession # NP_631933
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

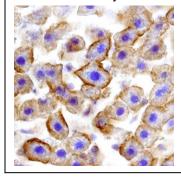
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample						
Western Blot	0.1 μg/mL	Recombinant Rat Fas/TNFRSF6/CD95 Fc Chimera (Catalog # 2159-FA)						
Flow Cytometry	2.5 μg/10 ⁶ cells	Rat splenocytes						
Immunohistochemistry	5-15 μg/mL	See Below						
CyTOF-ready	Ready to be labeled with conjugation.	using established conjugation methods. No BSA or other carrier proteins that could interfere						

DATA

Immunohistochemistry



Fas/TNFRSF6/CD95 in Rat Liver.
Fas/TNFRSF6/CD95 was detected in perfusion fixed frozen sections of rat liver using Goat Anti-Rat Fas/TNFRSF6/CD95
Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2159) at 15 μg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to hepatocyte cell membranes. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.

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Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 months from date of receipt, 22 to 470 of as supplied.
 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

Fas, also known as APO-1, CD95, and TNFRSF6, belongs to the death receptor family, which is a subfamily of the TNF receptor superfamily (1). Death receptors contain a cytoplasmic death domain (DD), which is required for transducing apoptotic signals. Engagement of Fas by its ligand (FasL) or agonistic anti-Fas antibodies induces dimerization and oligomerization of preformed Fas trimers. The activated receptor recruits the adaptor molecule FADD to form the Death-Inducing Signaling Complex (DISC) that also contains caspases. Upon activation, the caspases initiate a signaling cascade that induces the characteristic apoptotic phenotypes (2). Fas is highly expressed in epithelial cells, hepatocytes, activated mature lymphocytes, virus-transformed lymphocytes and other tumor cells. Fas expression has also been detected in mouse thymus, liver, heart, lung, kidney and ovary. FasL is a member of the TNF family of type 2 membrane proteins. FasL is predominantly expressed by activated T-lymphocytes, NK cells, and in tissues with immune-privileged sites (3).

Fas plays a role in the down-regulation of the immune reaction and has been shown to be an essential mediator of activation-induced death of activated T lymphocytes. Fas-mediated cell death has also been shown to be important for the deletion of activated or autoreactive B-lymphocytes. Both human and mice with genetic defects in Fas accumulate abnormal lymphocytes and develop systemic autoimmunity (4). Besides the perforin/granzyme-based mechanism, the Fas-FasL system has been identified as the alternate pathway for CTL-mediated cytotoxicity (5). FasL has also been shown to function in immunological privileged sites by killing infiltrating Fas-bearing lymphocytes and inflammatory cells (6). Rat Fas cDNA encodes a 324 amino acid residue type 1 membrane protein. The extracellular domain of rat Fas shares 54.1% and 66.7% amino acid sequence identity with that of human and mouse Fas, respectively.

References:

- 1. Ashkenazi, A. and V. Dixit (1999) Curr. Opin. Cell Biol. 11:255.
- 2. Thorburn, S. (2003) Cellular Signaling 16:139.
- 3. Green, D.R. and C.F. Ware (1997) Proc. Natl. Acad. Sci. USA 94:5986.
- 4. Siegel, R.M. et al. (2003) Immunol. Res. 27:499.
- 5. Barry, M. et al. (2000) Mol. Cell Biol. 20:3781.
- Barreiro, R. et al. (2004) J. Immunol. 173:1519.