

## Human Fas/TNFRSF6/CD95 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF326

an
cts human Fas in ELISAs and Western blots. In sandwich immunoassays, less than 0.3% cross-reactivity with recombinant human Fas id and recombinant mouse Fas is observed.
olonal Goat IgG
en Affinity-purified
e myeloma cell line NS0-derived recombinant human Fas
hilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.
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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.				
Western Blot	0.1 μg/mL	Recombinant Human Fas/TNFRSF6/CD95 Fc Chimera (Catalog # 326-FS)		
Human Fas/TNFRSF6/CD95 Sandw	ich Immunoassay	Reagent		
ELISA Capture	2-8 μg/mL	Human Fas/TNFRSF6/CD95 Antibody (Catalog # MAB144)		
ELISA Detection	0.1 <b>-</b> 0.4 μg/mL	Human Fas/TNFRSF6/CD95 Biotinylated Antibody (Catalog # BAF326)		
Standard		Recombinant Human Fas/TNFRSF6/CD95 Fc Chimera (Catalog # 326-FS)		

PREPARATION AND STORAGE			
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.		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  12 months from date of receipt, -20 to -70 °C as supplied.  1 month, 2 to 8 °C under sterile conditions after reconstitution.  6 months, -20 to -70 °C under sterile conditions after reconstitution.		

## BACKGROUND

Fas, also known as APO-1, CD95, and TNFRSF6, was originally identified as a cell-surface protein which binds to monoclonal antibodies that were cytolytic for various human cell lines. In the new TNF Receptor superfamily nomenclature, Fas is referred to as TNFRSF6. Human Fas cDNA encodes a 325 amino acid (aa) residue type 1 membrane protein that belongs to the TNF and NGF receptor family. Alternatively spliced cDNAs encoding multiple Fas isoforms, including a soluble form of Fas lacking the transmembrane domain, have also been identified. 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. The ligand for Fas (FasL) has been identified and shown to be 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. Soluble FasL can be produced by proteolysis of membrane-associated Fas.

Ligation of Fas by FasL or anti-Fas antibody has been shown to induce apoptotic cell death in Fas-bearing cells. Fas plays a role in the down-regulation of the immune reaction and has been shown to be a key 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. Besides the perforin/granzyme-based mechanism, the Fas system has been identified as the alternate pathway for CTL-mediated cytotoxicity. FasL has also been shown to function in immunological privileged sites by killing infiltrating Fas-bearing lymphocytes and inflammatory cells.

## References:

- 1. Nagata, S. and P. Golstein (1995) Science 267:1449.
- 2. Nagata, S. (1997) Cell 88:355.
- 3. Parijs, L. and A.K. Abbas (1996) Current Opinion in Immunol. **8**:355.
- 4. Green, D.R. and C.F. Ware (1997) Proc. Natl. Acad. Sci. USA 94:5986.