

# Anti-Fas (human, neutralizing), clone ZB4

Monoclonal Antibody

Cat. # 05-338

Lot # DAM1411324

pack size: 100 µg

Store at -20°C

FOR RESEARCH USE ONLY



## Certificate of Analysis

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Applications	Species Cross-Reactivity	Antibody Isotype	Epitope/Region	Host Species	Molecular Weight	Accession #
WB, FC, NEUT	H	IgG1	N/A	M	45 kDa	NM_152877

### Background

Fas (also known as Apo-1 and CD95) is a 40-50 kDa cell surface glycoprotein and a member of the TNF receptor family. Fas is an apoptosis signalling molecule that forms the death inducing signalling complex (DISC) upon binding by the Fas ligand trimer on an adjacent cell. The Fas receptor also trimerizes, after which it is internalized and can then bind to the adaptor molecule FADD. FADD facilitates binding of caspase-8, which is activated to induce caspase-8 mediated apoptosis. Fas also plays a role in T cell mediated cytotoxicity and T cell development. Fas is found in the thymus, liver, heart, and ovary, where it is expressed on a minority of resting T and B cells and monocytes. The antagonistic ZB4 clone anti-Fas monoclonal has been used to block the apoptosis-inducing activity of the Anti-Fas CH-11 clone in multiple publications.

### Presentation

Ammonium sulfate and purified mouse monoclonal IgG1 in PBS containing 50% glycerol. Store at -20°C.

### Concentration

1 mg/mL

### Specificity

This antibody recognizes the human cell surface antigen Fas expressed in various human cells, including myeloid cells, T lymphoblastoid cells and diploid fibroblasts. It does not induce apoptosis in cell culture.

### Species Cross-reactivity

Human. This antibody does not recognize TNF and mouse Fas.

### Immunogen

Recombinant human Fas.

### Molecular Weight

45 kDa

### Method of Purification

Protein A Purified

### Storage and Handling

Stable for 1 year at -20°C from date of receipt.

Handling Recommendations: Upon receipt, and prior to removing the cap, centrifuge the vial and gently mix the solution. Aliquot into microcentrifuge tubes and store at -20°C. Avoid repeated freeze/thaw cycles, which may damage IgG and affect product performance. Note: Variability in freezer temperatures below -20°C may cause glycerol-containing solutions to become frozen during storage.

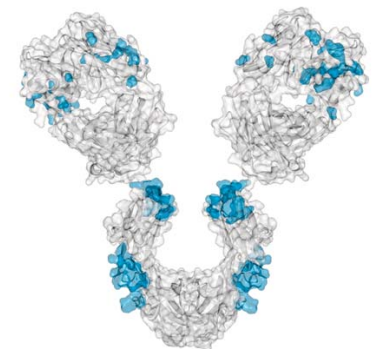
### Control

Various human cells

### Quality Control Testing

Evaluated by neutralization of apoptosis induced by anti-Fas (human, activating), clone CH11 (Catalog # 05-201) treatment of human Jurkat cells.

**Neutralization:** 10-500 ng/mL of this antibody was incubated for one hour with human Fas-transfected cells and inhibited the anti-Fas (human, activating), clone CH11 (Catalog # 05-201). Cell viability was assessed using a WST-1 assay



### References

- Zhang, B., et al. (2003). *J Biol Chem.* 278:28443-54.
- Lacana, E. and D'Adamo, L. (1999). *Nat Med.* 5:542-7.
- Boirivant, M., et al. (1996). *J Clin Invest.* 98: 2616-22.
- Yonehara, S., et al. (1994). *Int. Immunol.* 6: 1849-56.

### Additional Research Applications

**Flow Cytometry:** A previous lot of this antibody used 5-20 µg/mL.

**Western Blot:** A previous lot of this antibody used 5 µg/mL.

**APPLICATION LEGEND:** WB Western Blotting NEUT Neutralizing FC Flow Cytometry (FACS) IP Immunoprecipitation IC Immunocytochemistry IF Immunofluorescence IH Immunohistochemistry (Tissue)

**SPECIES LEGEND:** H Human M Mouse R Rat Rb Rabbit WR Most Common Vertebrates

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**RELATED PRODUCTS (specific)**

cat #	description
05-201	■ Anti-Fas (human, activating), clone CH11
05-351	■ Anti-Fas, clone 7C10
MAB4622	■ Anti-Fas, clone 95C03
MAB3061	■ Anti-Fas, clone SM1/1
MAB3065	■ Anti-Fas, clone SM1/23
APT177	■ Soluble Fas ELISA Kit
12-349	■ Goat Anti-Mouse IgG, HRP conjugate

**RELATED PRODUCTS (non-specific)**

cat #	description
IPVH00010	■ Immobilon-P 26.5 cm x 3.75 m Roll PVDF 0.45 µm
IPFL00010	■ Immobilon-FL 26.5 cm x 3.75 m Roll PVDF 0.45 µm
IPVH07850	■ Immobilon-P 7 x 8.4 cm PVDF 0.45 mm (sheet) 50/pk
ISEQ00010	■ Immobilon-P SQ 26.5 cm x 3.75 m 1 roll PVDF 0.2 µm
ISEQ07850	■ Immobilon-P 7 x 8.4 cm PVDF 0.2 mm (sheet) 50/pk
IPFL07810	■ Immobilon-FL 7 x 8.4 cm PVDF 0.45 mm (sheet) 10/pk
WBKLS0100	■ Immobilon Western Chemilum HRP Substrate 100 mL
17-373	■ Spray & Glow™ ECL WB Detection System 1 ea
2060	■ Re-Blot Western Blot Recycling Kit
2500	■ Re-Blot Plus Western Blot Recycling Kit
B2080-175GM	■ Blot Quick Blocker Membrane Blocking Agent 175G

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