



Certificate of Analysis

199 Saranac Avenue • Lake Placid, NY 12946
Technical Support: T: 800 548-7853 • F: 518 523-4513
email: techserv@upstatebiotech.com
Sales Department: T: 800 233-3991 • F: 617 890-7738
Licensing Dept.: 800 310-4659
www.upstatebiotech.com

Anti-Human Fas (neutralizes)
(mouse monoclonal IgG₁, clone ZB4)
Catalog # 05-338
Lot # 18790

Immunogen: Recombinant human Fas.

Antibody Class: Mouse IgG₁. Produced by NS-1 myeloma x Balb/c splenocyte hybridoma, propagated as ascites. Clone ZB4.

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

Species Cross-reactivity: This antibody does not recognize TNF and does not cross-react with mouse Fas.

Formulation: 100mg of ammonium sulfate and protein A purified mouse IgG₁, lyophilized from 100µl PBS containing 10mg/ml sucrose. Lyophilized powder. Reconstitute in 100µl distilled water.

Storage and Stability: Stable for 2 years at -20°C from date of shipment. Aliquot reconstituted solution to avoid repeated freezing and thawing.

FOR IN VITRO RESEARCH USE ONLY
NOT FOR USE IN HUMANS OR IN ANIMALS

Quality Control Testing

Neutralization: This lot of antibody, at 125ng/ml or greater, neutralized over 80% of the apoptosis induced by anti-Human Fas, clone CH-11 (Catalog # 05-201, 50ng/ml) treatment of human Jurkat cells.

Background: Fas is an apoptosis-signaling receptor molecule found on the surface of a number of cell types and belongs to the tumor necrosis factor (TNF)/nerve growth factor receptor family.

Apoptosis Neutralization Assay Protocol

A. Day One – Setting up plates and treating cells

1. Add 50 μ l of cell growth medium (RPMI, 2% FBS) to the wells of a 96 well microtiter plate.
2. Add **50 μ l of α -Human Fas, clone ZB4** (at 4x final concentration) in duplicate to row 1.
3. Titrate 50 μ l from row 1 serially across the plate.
4. Add 50 μ l of Jurkat cells to each well at a density of 10⁵ cells/well.
5. Incubate the plate at 37°C, 5% CO₂ for 1 hour to allow antibody/cell interaction.
6. Add 100 μ l of apoptosis inducing α -Human Fas, clone CH-11 (Catalog # 05-201), diluted in cell growth medium to 50ng/ml final concentration.
7. Incubate for 20-24 hours at 37°C, 5% CO₂.

B. Day Two - Cell Viability Check - MTT

1. Add 10 μ l of 5mg/ml MTT in PBS to all wells.
2. Incubate for 2 hours at 37°C, 5% CO₂.
3. Spin the plate at 2,500 rpm for 5 minutes to pellet the cells.
4. Gently aspirate off the culture media.
5. Add 100 μ l of acidic isopropanol (0.1N HCl) to each well.
6. Mix until the MTT crystals dissolve, approximately 5 minutes at room temperature.
7. Fill 4 or more wells with 100 μ l of acidic isopropanol and use to zero the microtiter plate reader
8. Read at 570nm.
9. Compare absorbance of cells that were allowed to grow maximally to cells that were induced to undergo apoptosis in the presence or absence of the neutralizing antibody α -Human Fas, clone ZB4.