



cell signaling solutions

Certificate of Analysis

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Anti-Fas (human, neutralizing), clone ZB4

(mouse monoclonal IgG₁)

Catalog # 05-338

Lot # 26280

Immunogen: Recombinant human Fas. 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 mouse Fas.

Formulation: 100µg of ammonium sulfate and protein A purified mouse IgG₁, in 100µl PBS containing 50% glycerol. Liquid at -20°C.

Storage and Stability: Stable for 2 years at -20°C from date of shipment. For maximum recovery of the product, centrifuge the original vial prior to removing the cap.

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

Quality Control Testing

Neutralization: 500ng/ml of this lot neutralized over 50% of the apoptosis induced by anti-Fas (human, activating), clone CH11 (Catalog # 05-201, 50ng/ml) treatment of human Jurkat cells. Cell viability was assessed using an ATP endpoint assay (ATPLite™-M, Packard Instruments).

Example 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. **NOTE:** Use black microtiter plate if performing ATP endpoint assay.
2. Add **50 μ l of anti-Fas, (human, neutralizing)** (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 anti-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. Determine cell viability by using ATP endpoint assay or MTT, see B or C below.

B. Day Two – Cell Viability Check – ATP

Assay for cell number using ATP endpoint assay per vendor's instructions. Read ATP levels and 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 anti-Fas (human, neutralizing).

C. 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.

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 anti-Fas (human, neutralizing).