ALPHA DIAGNOSTIC INTERNATIONAL

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Product Data Sheet

Cat # AB-20510	Mouse Anti-Human FAS (CD95) Activating antibody IgG	**Size:** 100ug

Introduction:
The Fas receptor (CD95) mediates apoptotic signaling by Fas-ligand expressed on the surface of other cells. The Fas-FasL interaction plays an important role in the immune system and lack of this system leads to autoimmunity, indicating that Fas-mediated apoptosis removes self-reactive lymphocytes. Fas signaling is also involved in immune surveillance to remove transformed cells and virus infected cells. Binding of FAS to oligimerized FasL on another cell activates apoptotic signaling through a cytoplasmic domain termed the death domain that interacts with signaling adaptors including FAF, FADD and DAX to activate the caspase proteolytic cascade. Caspase-8 and caspase-10 are first activated, to then cleave and activate downstream caspases, and a variety of cellular substrates that lead to cell death. Caspases cleave nuclear lamins, causing the nucleus to break down and lose its normal structure and another caspase substrate is DFF, inducing cleavage and degradation of the genome. Other caspase substrates are involved in cytoskeletal structure, cell cycle regulation and signaling pathways. Activation of JNK kinase, activation of Jun, and production of ceramide may also play roles in Fas-mediated apoptosis. Activation of fas-mediated apoptosis is opposed by I-FLICE and FAP. Viruses and tumors may escape immune surveillance in part through suppression of fas-mediated apoptosis using similar mechanisms.

FASLG receptor, Apoptosis-mediating surface antigen FAS, Apo-1 antigen, CD95,Tumor necrosis factor receptor superfamily member 6 TNR6, APT1, FAS1, TNFRSF6.

Soruce of antigen and antibodies:

Antigen: Recombinant .Hu FAS;

Mouse IgG1, Clone: NYRhFAS, purification by ion exchange column, 1 mg/ml in PBS (after reconstitution), Reconstitute with H20. Mix gently, wash the sides of the vial and wait 30-60 seconds before use. Two years lyophilized, one month in solution at 4℃. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4oC for ~1 week or aliquots in suitable size and store at -20oC for long term storage

By direct ELISA, 1:10,000 dilution will yield 0.5 O.D using alkaline phosphatase conjugated rabbit anti-mouse Ig .

This is an ACTIVATING antibody and will induce FAS-mediated apoptosis

Suggested secondary antibodies

Cat # 40320, rabbit anti-mouse IgG-HRP (AP, biotin, FITC conjugates also available) or Goat Anti-mouse IgG1-HRP (#40216)

Matching isotype Controls

Catalog#	ProdDescription
20102-101	Mouse IgG1 isotype control, purified
20102-101-APC	Mouse IgG1-APC conjugate
20102-101-B	Mouse IgG1-Biotin conjugate
20102-101-F	Mouse IgG1-FITC conjugate
20102-101-FP	Mouse IgG1-FITC-PE conjugate
20102-101-HP	Mouse IgG1-HRP conjugate
20102-101-PC5	Mouse IgG1-PE-Cy5 conjugate
20102-101-PE	Mouse IgG1-PE conjugate

Usage:
This item is for LABORATORY RESEARCH USE ONLY.

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