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10-1002: Monoclonal antibody to DR4 (Clone: ABM1B11)

Clonality :	Monoclonal
Clone Name :	ABM1B11
Application :	FACS,WB
Reactivity :	Human
Gene :	TNFRSF10A
Gene ID :	8797
Uniprot ID :	O00220
Format :	Purified
Alternative Name :	TNFRSF10A,APO2,DR4,TRAILR1
Isotype :	Mouse IgG1 Kappa
Immunogen Information :	A partial length recombinant human DR4 protein (amino acids 2-203 was used as an immunogen for this antibody.

Description

Death receptor 4 (DR4) or TRAIL-R1, a member of the tumor necrosis factor receptor superfamily, is a cell surface receptor that triggers the apoptotic machinery upon binding to its ligand tumor necrosis factor-related apoptosis-inducing ligand (TRAIL). DR4 is expressed in most of human tissues including spleen, peripheral blood leukocytes, small intestine and thymus. DR4 expression is enhanced by DNA damage whether induced by ionizing radiation or by chemotherapeutic agents. On binding DR4, TRAIL induces cell death via caspase-dependent apoptosis. DR4 mediates oligomeric Abeta induction of extrinsic apoptotic pathways in human microvascular cerebral endothelial cells with activation of both caspase-8 and caspase-9. It is considered a promising molecular target for cancer therapy.

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Western blot analysis: 2-4 µg/ml, FACS analysis- 0.5-1 µg/10^6 Cells

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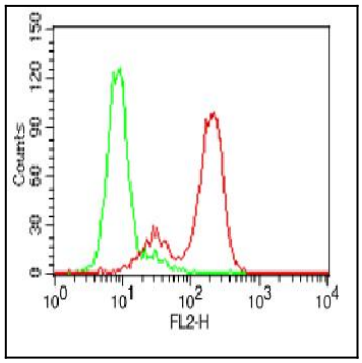


Fig.1: Intracellular FLOW analysis of Jurkat cells using 0.5 µgof DR4 antibody (Clone: ABM1B11). Isotype contol mouse IgG1 (ABEOMICS) was used. Goat Anti-mouse PE was used as secondary antibody.

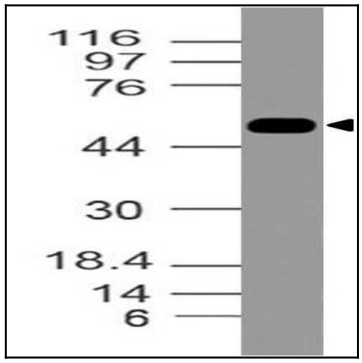


Fig.2: Expression analysis of DR-4. Anti-DR4 antibody (Clone: ABM1B11) was tested at 2 µg/ml on K562 lysate.

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