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DR4 Monoclonal Antibody (32A1380)

Catalog Number **MA1-41076**

Product data sheet

Details	
Size	100 µg
Host/Isotope	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	32A1380
Immunogen	Synthetic peptide corresponding to residues 2-21 of human DR4 mature protein.
Conjugate	Unconjugated
Form	Liquid
Concentration	1.0 mg/mL
Purification	Protein G
Storage buffer	PBS
Contains	0.05% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

Species Reactivity	
Species reactivity	Human

Tested Applications	Dilution *
Flow Cytometry (Flow)	1:20-1:2,000
Western Blot (WB)	0.5 - 4 µg/mL
Immunocytochemistry (ICC/IF)	Assay-Dependent

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

Suggested positive control: Daudi.

Background/Target Information

TRAIL-R1 (CD261, DR4) is a type I transmembrane protein, also called TRAIL receptor 1. The ligand for this DR4 death receptor has been identified and termed TRAIL, which is a member of the TNF family. DR4, as many other receptors (Fas, TNFR1, etc.), mediates apoptosis and NF kappaB activation in many cells and tissues. Apoptosis, a programmed cell death, is a operating process in normal cellular differentiation and development of multicellular organisms. Apoptosis is induced by coupled of certain cytokines (TNF family - TNF, Fas ligand) and their death domain containing receptors (TNFR1, Fas receptor).

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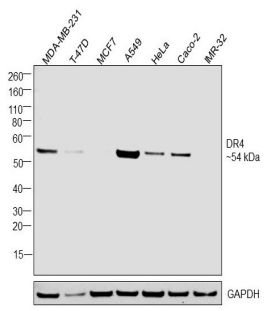
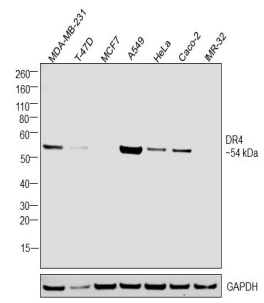
Product Images For DR4 Monoclonal Antibody (32A1380)



DR4 Antibody (MA1-41076) in WB

Western Blot was performed using Anti-DR4 Monoclonal Antibody (32A1380) (Product # MA1-41076) and a 54 kDa band corresponding to Tumor necrosis factor receptor superfamily member 10A was observed across tested samples. Membrane enriched extracts (40 µg lysate) of MDA-MB-231 (Lane 1), T-47D (Lane 2), MCF7 (Lane 3), A549 (Lane 4), HeLa (Lane 5), Caco-2 (Lane 6), IMR-32 (Lane 7) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # LC2001) by iBlot® 2 Dry Blotting System (Product # IB21001). The Blot was probed with the primary antibody (0.5 µg /mL concentration) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).

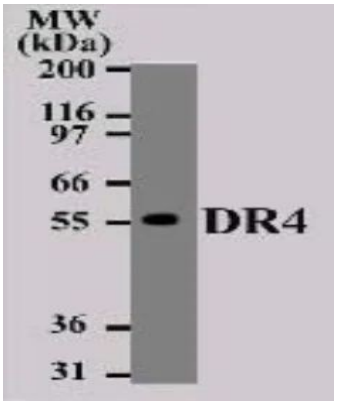


DR4 Antibody (MA1-41076)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Relative expression of Tumor necrosis factor receptor superfamily member 10A was observed in MDA-MB-231, A549 compared to MCF7 and IMR-32 using Anti-DR4 Monoclonal Antibody (32A1380) (Product # MA1-41076) in Western Blot (DOI: 10.1158/1541-7786.MCR-08-0313). {RE}

DR4 Antibody (MA1-41076) in WB

Western blot analysis of DR4 in 0.5 mg/mL Daudi lysate. Samples were incubated in DR4 monoclonal antibody (Product # MA1-41076). This experiment was performed under reducing conditions using the 12-230 kDa separation system. * Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody.



DR4 Antibody (MA1-41076) in WB

Western blot analysis of DR4 in Daudi cell lysate. Samples were incubated in DR4 monoclonal antibody (Product # MA1-41076) using a dilution of 2 µg/mL followed by a goat anti-mouse HRP secondary antibody. PicoTect ECL substrate solution was used for this test.

Thermo Fisher Scientific
3747 N. Meridian Road
Rockford, IL 61105 USA

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