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Datasheet for 200-401-H72

DR5 Antibody

Overview

Description:	Anti-DR5 (RABBIT) Antibody - 200-401-H72
Item No.:	200-401-H72
Size:	100 µg
Applications:	FC, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	DR5 TRAILR2 antibody detects human DR5 TrailR2. Apoptosis induced by certain cytokines including TNF and Fas ligand in the TNF family through their death domain containing receptors. TRAIL/Apo2L is a new member of the TNF family. DR4 was recently identified as the receptor for TRAIL. A novel death domain containing receptor for TRAIL was more recently identified and designated DR5, Apo2, TRAIL-R2, TRICK2, or KILLER by several groups independently. Like DR4, DR5 transcript is widely expressed in normal tissues and in many types of tumor cells. DR5 binds to TRAIL and mediates TRAIL induced cell death. Overexpression of DR5 induces apoptosis and activates NF-kB. Anti DR5 TRAILR2 is ideal for investigators involved in apoptosis and NF-kappa B research.
Synonyms:	Tumor necrosis factor receptor superfamily member 10B, TNFRSF10B, DR5, KILLER, TRAILR2, TRICK2, ZTNFR9, Death receptor 5, TNF-related apoptosis-inducing ligand receptor 2, TRAIL receptor 2, TRAIL-R2, CD_antigen=CD262
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TNFRSF10B
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	DR5 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide corresponding to amino acids near the c-terminus of human DR5.
Purity/Specificity:	Anti-DR5 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with DR5 TRAILR2 from Human based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-DR5 TRAILR2 from other sources has not been determined.
Relevant Links:	• UniProtKB - O14763 • NCBI - NP_003833.4 • GeneID - 8795

Application Details

Tested Applications:	FC, IF, IHC, WB
Application Note:	Anti-DR5 Antibody is tested for use in WB, Flow, Flow-CS, ICC/IF, IHC, IHC-P. Expect a band approximately 47.9 kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	User Optimized
IF:	User Optimized
IHC:	User Optimized
WB:	5 µg/mL

Formulation

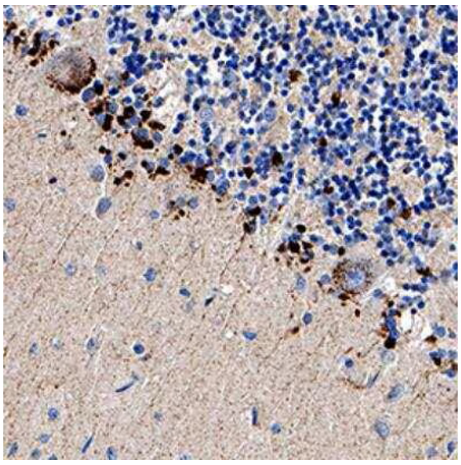
Physical State:	Liquid
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide

Shipping & Handling

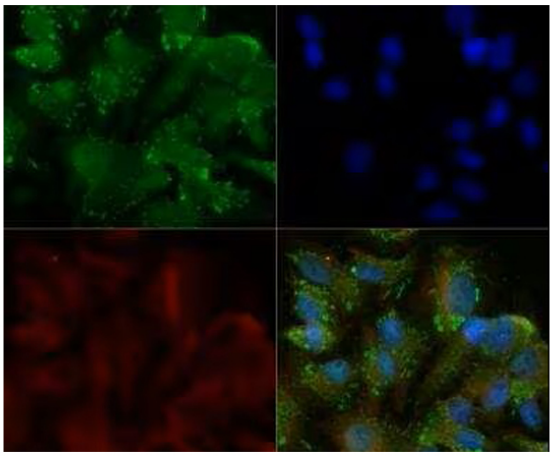
Shipping Condition:	Dry Ice

Storage Condition:	Store DR5 antibody at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

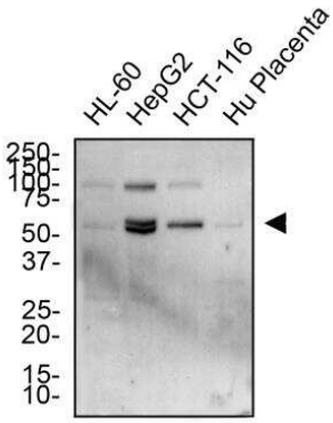
Images



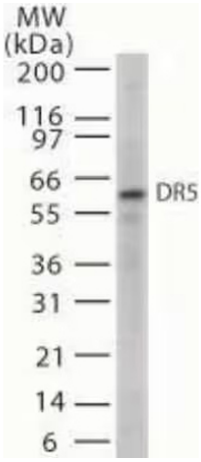
Immunohistochemistry
Immunohistochemistry analysis of Anti-DR5/TRAIL R2/TNFRSF10B antibody at 1:200 concentration, formalin fixed paraffin-embedded (FFPE) human brain cerebellum, on a Bond Rx autostainer (Leica Biosystems). The assay involved 30 minutes of heat induced antigen retrieval (HIER) using 10mM sodium citrate buffer (pH 9.0) and endogenous peroxidase quenching with peroxide block. The sections were incubated with primary antibody for 15 minutes and Bond Polymer Refine Detection (Leica Biosystems) with DAB was used for signal development followed by counterstaining with hematoxylin. Cytoplasmic staining was observed in the Purkinje cell layer.



Immunofluorescence Microscopy
Immunocytochemistry/Immunofluorescence analysis of Anti-DR5/TRAIL R2/TNFRSF10B Antibody. HepG2 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-DR5 at 5ug/ml overnight at 4°C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Western Blot
Western Blot analysis of Anti-DR5/TRAILR2/TNFRSF10B Antibody. Total protein from HL-60, HepG2, HCT-116 and human placenta was separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/ml anti-DR5 in 1% non-fat milk in TBST and detected with an anti-rabbit HRP secondary antibody using chemiluminescence.



Western Blot
Western Blot analysis of Anti-DR5/TRAILR2/TNFRSF10B Antibody. Detection of 20 ug of whole cell lysates from HL60 cells with anti-D5 at 5µg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.