

Datasheet for 600-401-982

Death Receptor 4 Antibody

Overview

Description:	Anti-Death Receptor 4 (DR4) (RABBIT) Antibody - 600-401-982
Item No.:	600-401-982
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Apoptosis, or programmed cell death, occurs during normal cellular differentiation and development of multicellular organisms. Apoptosis is induced by certain cytokines in the TNF family, including TNF and Fas ligand, through their death domain containing receptors, TNFR1 and Fas. A novel death domain containing receptor was recently identified and designated DR4 (for death receptor 4). The ligand for this novel death receptor has been identified and termed TRAIL, which is a new member in the TNF family. DR4 is also called TRAIL receptor-1 (TRAIL-R1). DR4 is expressed in most human tissues including spleen, peripheral blood leukocytes, small intestine and thymus. Like TNFR1, Fas and DR3, DR4 mediates apoptosis and NF-κB activation in many tissues and cells. Anti-DR4 antibody is ideal for investigators involved in Apoptosis and Cytokines and Growth Factors.
Synonyms:	Tumor necrosis factor receptor superfamily member 10A, Death receptor 4, TNF-related apoptosis-inducing ligand receptor 1, TRAIL receptor 1, TRAIL-R1, CD261
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TNFRSF10A
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	DR4 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide corresponding to amino acids near the c-terminus of human DR4 protein.
Purity/Specificity:	Anti-DR4 Antibody is directed against human DR4 protein. The product was affinity purified from monospecific antiserum. The antibody is human, mouse and rat reactive. Reactivity against homologues from other sources has not been determined.
Relevant Links:	• UniProtKB - O00220 • NCBI - 259906438 • GeneID - 8797

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	DR4 Antibody has been tested for use in ELISA, western blotting, ICC, immunofluorescence, and immunohistochemistry. HeLa whole cell lysate can be used as a positive control for western blotting, and a band at approximately 57 kDa is expected. 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.
ELISA:	User Optimized
IF:	20 µg/mL
IHC:	10 µg/mL
WB:	0.5-1 µg/ml

Formulation

Physical State:	Liquid (sterile filtered)
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:	0.02% (w/v) Sodium Azide
Stabilizer:	None

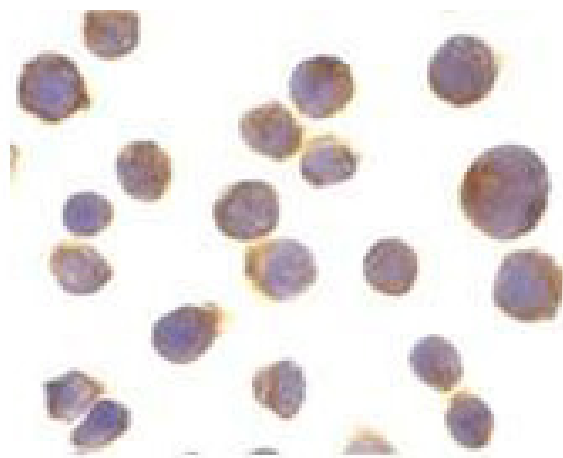
Shipping & Handling

Shipping Condition:	Wet Ice
----------------------------	---------

Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

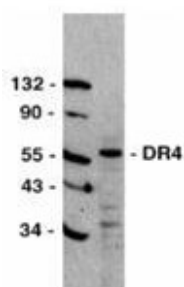
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunocytochemistry of DR4 in Jurkat cells with DR4 antibody at 10 µg/ml.



Western Blot

Western blot analysis of DR4 in HeLa total cell lysate with DR4 antibody at 1 µg/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.