Datasheet for 600-401-G96

DR5 Antibody

Overview

Description:	Anti-DR5 (RABBIT) Antibody - 600-401-G96
Item No.:	600-401-G96
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	DR5 antibody detects human DR5 precursor. Apoptosis is 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-alpha;B. Anti-DR5 antibodies are ideal for investigators involved in NFkappaB, Apoptosis, Cytokines and Growth factor research.
Synonyms:	DR5, KILLER, TRAILR2, TRICK2, ZTNFR9
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TNFRSF10B
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	DR5 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide corresponding to 20 amino acids near the c-terminus of human DR5 precursor. The immunogen is located within the last 50 amino acids of DR5.
Purity/Specificity:	Anti-DR5 Antibody was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest cross-reactivity with DR5 with Human and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with DR5 from other sources has not been determined. Antibody has no cross reaction to DR4.
Relevant Links:	• NCBI - NP_003833.4 • UniProtKB - O14763 • GeneID - 8795

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-DR5 Antibody is tested for use in E, IF, IHC-P, WB. Expect a band approximately ~45 and 48 kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user. Positive controls used are HeLa cells, K562 cells, and MOLT4 cells.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	10µg/mL
IHC:	5µg/mL
WB:	0.5-1µg/mL

Formulation

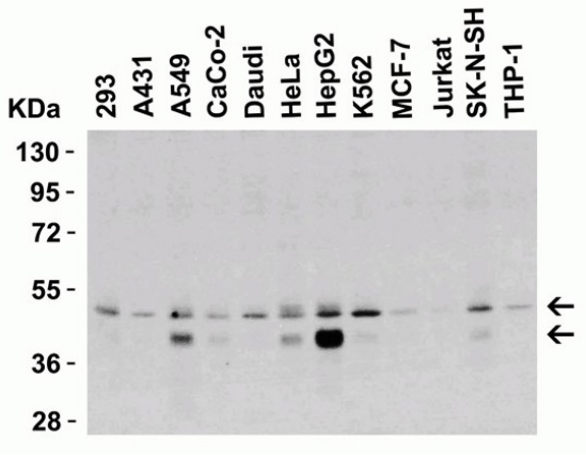
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

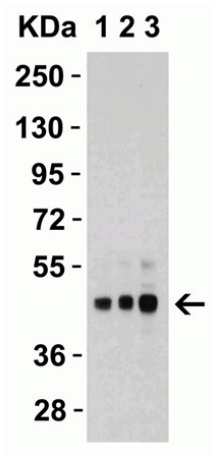
Shipping Condition:	Wet Ice

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.

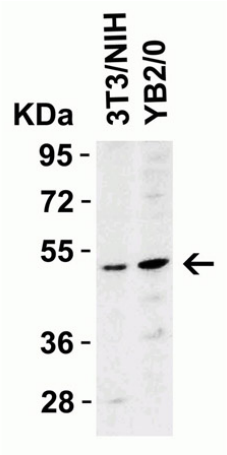
Images



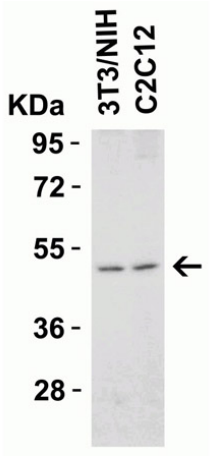
Western Blot
Western Blot Validation of Anti-DR5 in Human Cell Lines.
Loading: 15 µg of lysates per lane.
Lane 1: 293, Lane 2: A431, Lane 3: A549, Lane 4: CaCo-2, Lane 5: Daudi, Lane 6: HeLa, Lane 7: HepG2, Lane 8: K562, Lane 9: MCF-7, Lane 10: Jurkat, Lane 11: SK-N-SH, Lane 12: THP-1.
Primary Antibody: Anti-DR5 at 0.5 µg/mL for 1h at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



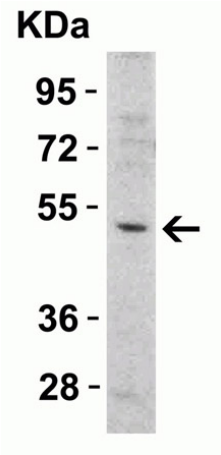
Western Blot
Western Blot Validation of Anti-DR5.
Load: 15 µg of Human HepG2 cells per lane.
Primary Antibody: Anti-DR5 at [Lane 1: 1µg/mL, Lane 2: 2µg/mL, Lane 3: 4µg/mL] for 1h at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



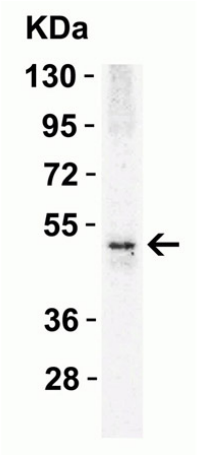
Western Blot
Western Blot Validation of Anti-DR5.
Loading: 15µg per lane. Lane 1: Mouse 3T3/NIH, Lane 2: Rat YB2/0.
Antibodies: Anti-DR5 at 2µg/mL for 1h at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



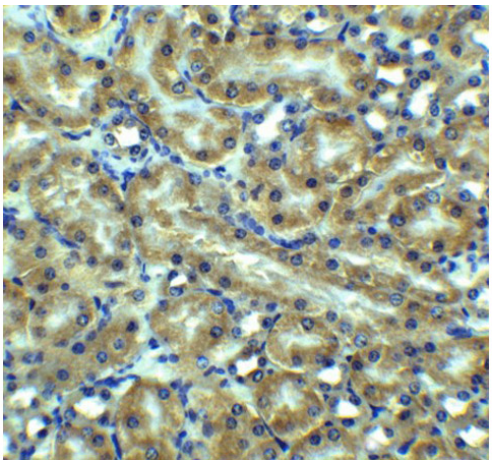
Western Blot
Western Blot Validation of Anti-DR5.
Loading: 15 µg of lysates per lane. Lane 1: Mouse 3T3/NIH, Lane 2: C2C12.
Primary Antibody: Anti-DR5 at 1µg/mL for 1h at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot
Western Blot Validation of Anti-DR5.
Loading: 15 µg of Mouse Heart lysate.
Primary Antibody: Anti-DR5 at 1µg/mL at 1h at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

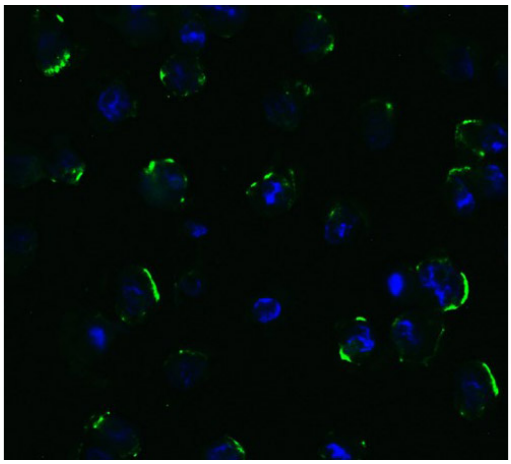


Western Blot
Western Blot Validation of Anti-DR5.
Loading: 15 µg of Rat Skeletal Muscle lysate.
Primary Antibody: Anti-DR5 1µg/mL for 1h at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

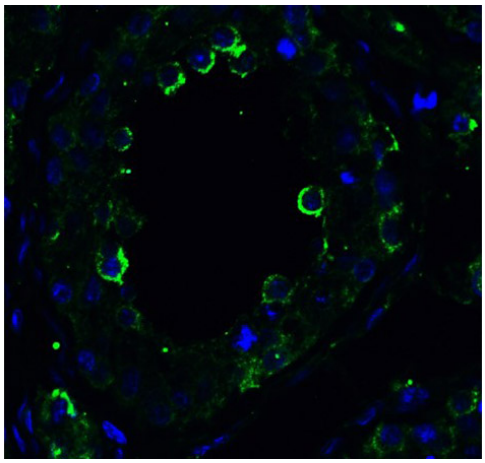


Immunohistochemistry
Immunohistochemistry Validation of DR5.
Tissue: Mouse kidney tissue.
Fixation: paraffin-embedded, fixed with formaldehyde and blocked with 10% serum for 1h at RT.
Antigen retrieval: heat mediation with a citrate buffer (pH6).

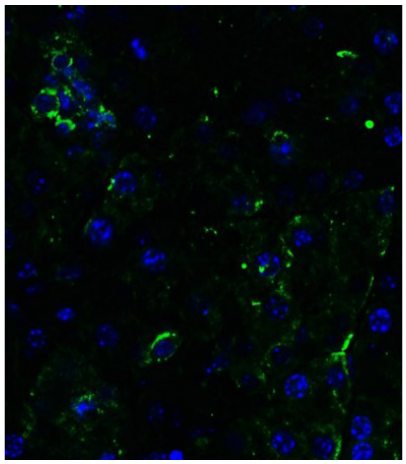
Primary Antibody: anti-DR5 antibody at 5µg/ml overnight at 4°C.
Secondary: goat anti-rabbit IgG H&L (HRP) at 1:250. Counter stained with Hematoxylin.



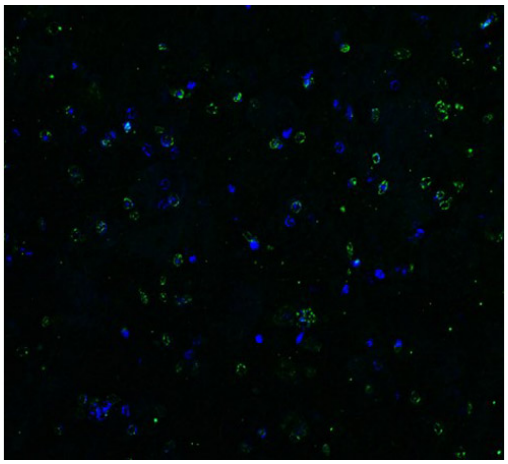
Immunofluorescence Microscopy
Immunofluorescence Validation of DR5.
Cells: Human HepG2 Cells.
Fixation: 4% paraformaldehyde-fixed.
PRimary Antibody: Anti-DR5 at 5 µg/mL.
Secondary: goat anti-rabbit IgG antibody at 1:500 dilution (green) and DAPI (blue).



Immunofluorescence Microscopy
Immunofluorescence of Anti-DR5
Cells: Human Testis.
Fixation: 4% paraformaldehyde-fixed.
Priamry Antibody: Anti-DR5 at 10 µg/mL
Secondary: goat anti-rabbit IgG secondary antibody at 1:500 dilution (green) and DAPI (blue).



Immunofluorescence Microscopy
Immunofluorescence Validation of DR5.
Tissue: Mouse Pancreas.
Fixation: 4% paraformaldehyde-fixed.
Primary Antibody: Anti-DR5 at 10 µg/mL.
Secondary: goat anti-rabbit IgG secondary antibody at 1:500 dilution (green) and DAPI (blue).



Immunofluorescence Microscopy
Immunofluorescence Validation of DR5.
Tissue: Rat Brain.
Fixation: 4% paraformaldehyde-fixed.
Primary Antibody: Anti-DR5 at 5 µg/mL.
Secondary: goat anti-rabbit IgG secondary antibody at 1:500 dilution (green) and DAPI (blue).

Disclaimer

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