

**Datasheet for 600-401-G96****DR5 Antibody****Overview**

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

**Product Details**

<b>Background:</b>	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 NF $\kappa$ B, Apoptosis, Cytokines and Growth factor research.
<b>Synonyms:</b>	DR5, KILLER, TRAILR2, TRICK2, ZTNFR9
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

**Target Details**

<b>Gene Name:</b>	TNFRSF10B
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Immunogen Type:</b>	Conjugated Peptide

<b>Immunogen:</b>	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.
<b>Purity/Specificity:</b>	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.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">NCBI - NP_003833.4</a></li><li>• <a href="#">UniProtKB - O14763</a></li><li>• <a href="#">GeneID - 8795</a></li></ul>

## Application Details

<b>Tested Applications:</b>	ELISA, IF, IHC, WB
<b>Application Note:</b>	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.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>IF:</b>	10µg/mL
<b>IHC:</b>	5µg/mL
<b>WB:</b>	0.5-1µg/mL

## Formulation

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

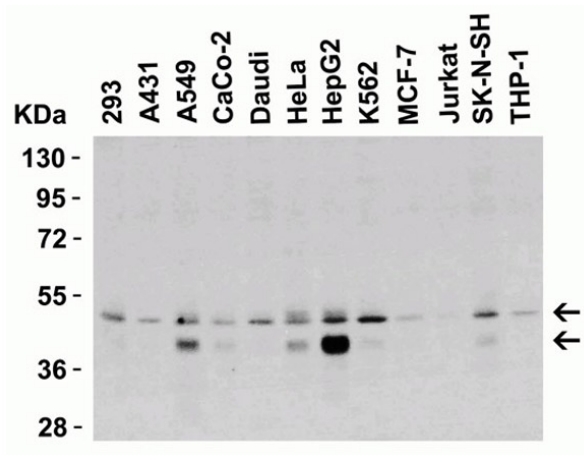
## Shipping & Handling

<b>Shipping Condition:</b>	Wet Ice
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**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

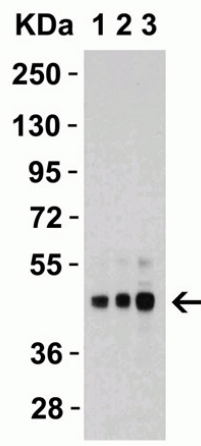
Western Blot Validation of Anti-DR5 in Human Cell Lines.

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.



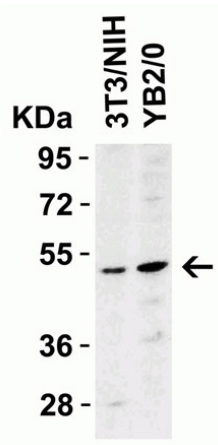
### Western Blot

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.

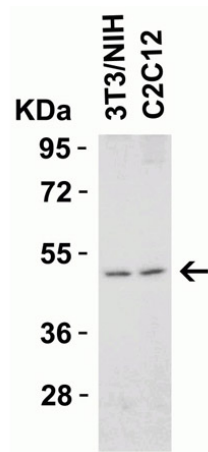
**Western Blot**

Western Blot Validation of Anti-DR5.

Loading: 15 µg per lane. Lane 1: Mouse 3T3/NIH, Lane 2: Rat YB2/O.

Antibodies: Anti-DR5 at 2 µg/mL for 1h at RT in 5% NFDN/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

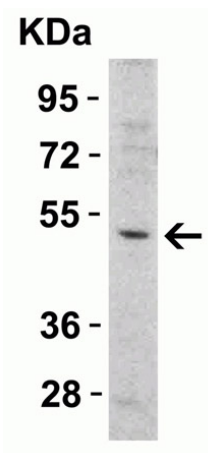
**Western Blot**

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 1 µg/mL for 1h at RT in 5% NFDN/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

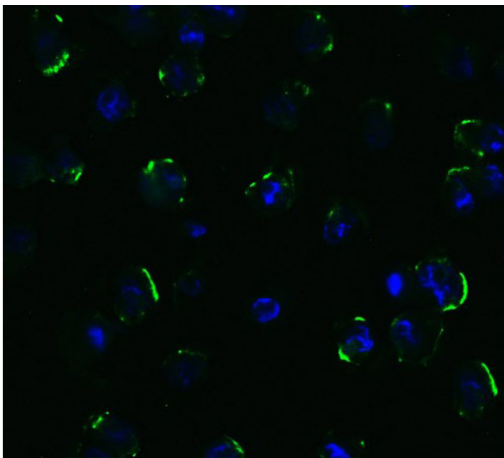
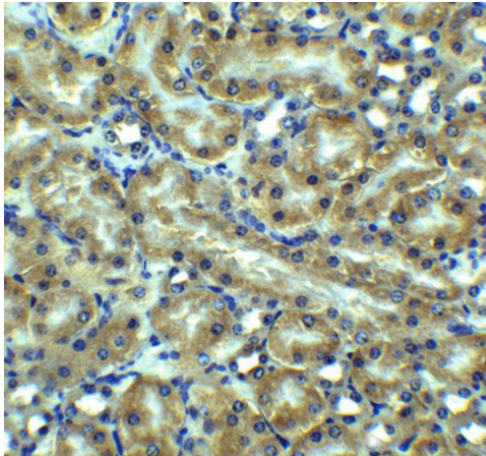
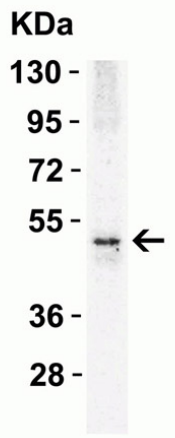
**Western Blot**

Western Blot Validation of Anti-DR5.

Loading: 15 µg of Mouse Heart lysate.

Primary Antibody: Anti-DR5 at 1 µg/mL at 1h at RT in 5% NFDN/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



#### Western Blot

Western Blot Validation of Anti-DR5.

Loading: 15  $\mu$ g of Rat Skeletal Muscle lysate.

Primary Antibody: Anti-DR5 1 $\mu$ g/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 5 $\mu$ g/ml overnight at 4°C.

Secondary: goat anti-rabbit IgG H&L (HRP) at 1:250. Counter stained with Hematoxylin.

#### Immunofluorescence Microscopy

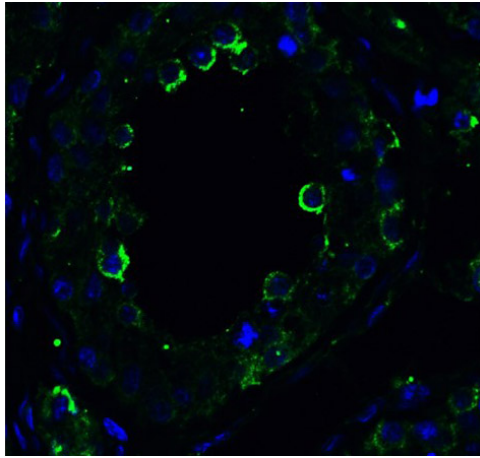
Immunofluorescence Validation of DR5.

Cells: Human HepG2 Cells.

Fixation: 4% paraformaldehyde-fixed.

Primary Antibody: Anti-DR5 at 5  $\mu$ g/mL.

Secondary: goat anti-rabbit IgG antibody at 1:500 dilution (green) and DAPI (blue).

**Immunofluorescence Microscopy**

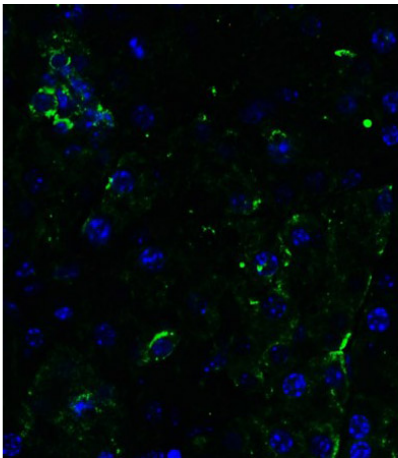
Immunofluorescence of Anti-DR5

Cells: Human Testis.

Fixation: 4% paraformaldehyde-fixed.

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**

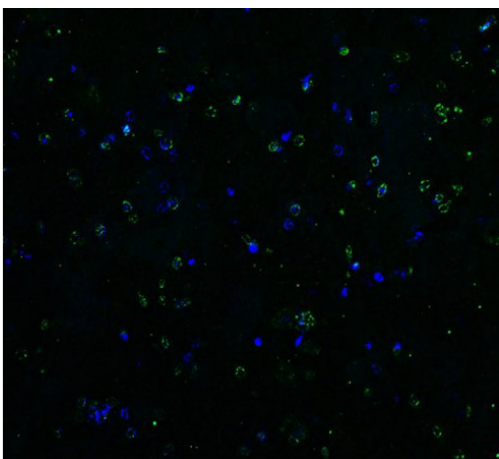
Immunofluorescence Validation of DR5.

Tissue: 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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