

Product datasheet

Anti-DR5 antibody ab8416

★★★★★ [5 Abreviews](#) [51 References](#) [8 Images](#)

Overview

Product name	Anti-DR5 antibody
Description	Rabbit polyclonal to DR5
Host species	Rabbit
Specificity	Does not cross react with DR4.
Tested applications	Suitable for: IHC-P, WB, ICC
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human DR5 (C terminal). DR5 antibody was raised against a peptide corresponding to 20 amino acids near the carboxy terminus of human DR5 precursor. The immunogen is located within the last 50 amino acids of DR5. Database link: O14763 (Peptide available as ab8449)
Positive control	WB: HEK293, A431, A549, Caco-2, Daudi, HeLa, HepG2, K562, MCF7, Jurkat, SK-N-SH and THP-1, 3T3/NIH, C2-C12 cell lysates (Human, Mouse, Rat). IHC-P: Mouse kidney tissue and rat brain tissue. ICC: HeLa cells.
General notes	<p>For information on sample preparation for western blot, please refer here.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at 4°C (stable for up to 12 months). Store at +4°C.
Storage buffer	pH: 7.2 Preservative: 0.02% Sodium azide
Purity	Affinity purified
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab8416 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (1)	Use a concentration of 5 µg/ml.
WB	★★★★★ (3)	Use a concentration of 2 µg/ml. Detects a band of approximately 60 kDa (predicted molecular weight: 47.8 kDa).
ICC		Use a concentration of 5 µg/ml.

Target

Function

Receptor for the cytotoxic ligand TNFSF10/TRAIL. The adapter molecule FADD recruits caspase-8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs caspase-8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis. Promotes the activation of NF-kappa-B. Essential for ER stress-induced apoptosis.

Tissue specificity

Widely expressed in adult and fetal tissues; very highly expressed in tumor cell lines such as HeLaS3, K-562, HL-60, SW480, A-549 and G-361; highly expressed in heart, peripheral blood lymphocytes, liver, pancreas, spleen, thymus, prostate, ovary, uterus, placenta, testis, esophagus, stomach and throughout the intestinal tract; not detectable in brain.

Involvement in disease

Squamous cell carcinoma of the head and neck

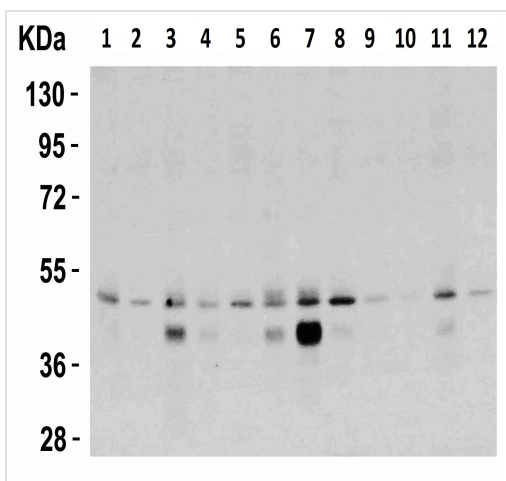
Sequence similarities

Contains 1 death domain.
Contains 3 TNFR-Cys repeats.

Cellular localization

Membrane.

Images



Western blot - Anti-DR5 antibody (ab8416)

All lanes : Anti-DR5 antibody (ab8416) at 0.5 µg/ml

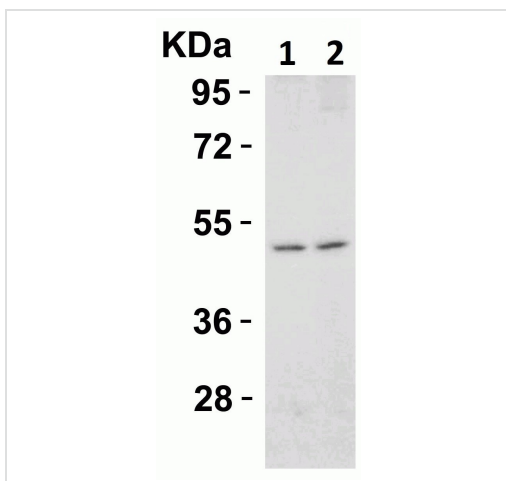
- Lane 1 :** HEK293 cell lysate
- Lane 2 :** A431 cell lysate
- Lane 3 :** A549 cell lysate
- Lane 4 :** Caco-2 cell lysate
- Lane 5 :** Daudi cell lysate
- Lane 6 :** HeLa cell lysate
- Lane 7 :** HepG2 cell lysate
- Lane 8 :** K562 cell lysate
- Lane 9 :** MCF7 cell lysate
- Lane 10 :** Jurkat cell lysate
- Lane 11 :** SK-N-SH cell lysate
- Lane 12 :** THP-1 cell lysate

Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG HRP conjugate at 1/10000 dilution

Predicted band size: 47.8 kDa



Western blot - Anti-DR5 antibody (ab8416)

All lanes : Anti-DR5 antibody (ab8416) at 1 µg

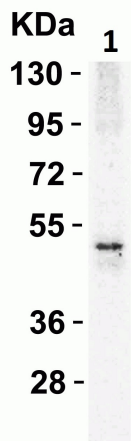
- Lane 1 :** 3T3/NIH cell lysate
- Lane 2 :** C2C12 cell lysate

Lysates/proteins at 15 µg per lane.

Secondary

All lanes : Goat anti-Rabbit IgG HRP conjugate at 1/10000 dilution

Predicted band size: 47.8 kDa



Western blot - Anti-DR5 antibody (ab8416)

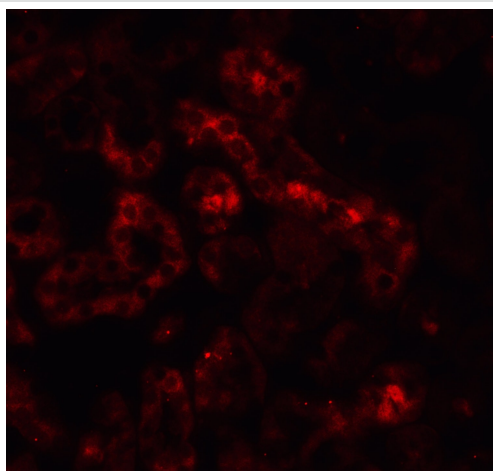
Anti-DR5 antibody (ab8416) at 1 µg/ml + Rat Skeletal Muscle at 15 µg

Secondary

Goat Anti-Rabbit IgG HRP Conjugate at 1/10000 dilution

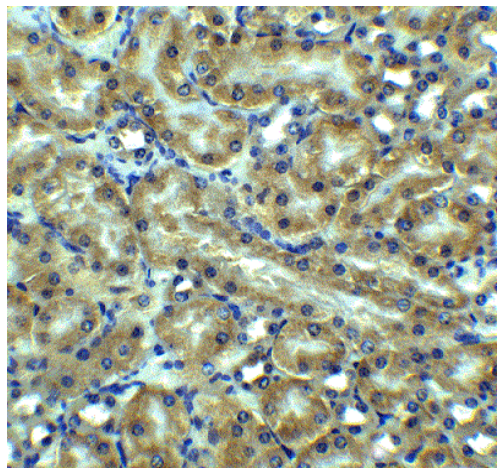
Predicted band size: 47.8 kDa

Blocking buffer: 5% NFD/MTBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DR5 antibody (ab8416)

Immunohistochemical analysis of 4% paraformaldehyde-fixed mouse kidney tissue using anti-DR5 antibody (ab8416) at 20 µg/mL followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution.

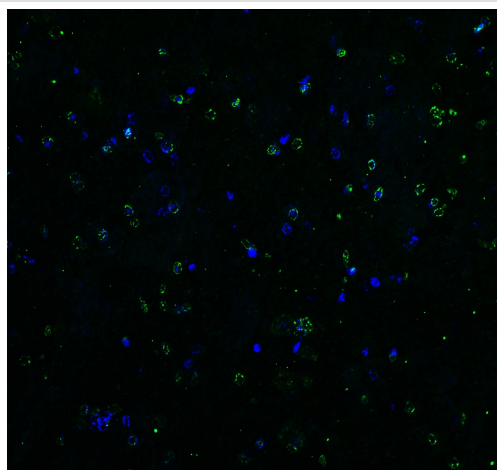


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DR5 antibody (ab8416)

Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-DR5 antibody (ab8416) at 5µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation (microwave for 20 minutes) with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary at room temperature for 1 hour. Counter stained with Hematoxylin.

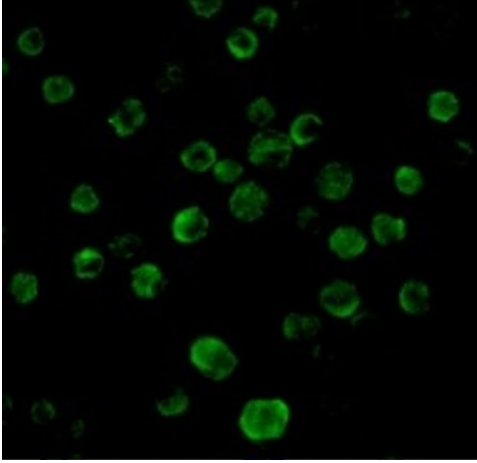
Endogenous peroxidase blocking: 3% H₂O₂ at room temperature for 10 minutes.

Washing: PBS, 2 x 5 minutes.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DR5 antibody (ab8416)

IHC-P of 4% paraformaldehyde-fixed rat brain tissue labelled DR5 with ab8416 at 5µg/ml, followed by Goat Anti-Rabbit IgG secondary antibody at 1/5000 dilution (green) and DAPI (blue).



Immunocytochemistry - Anti-DR5 antibody (ab8416)

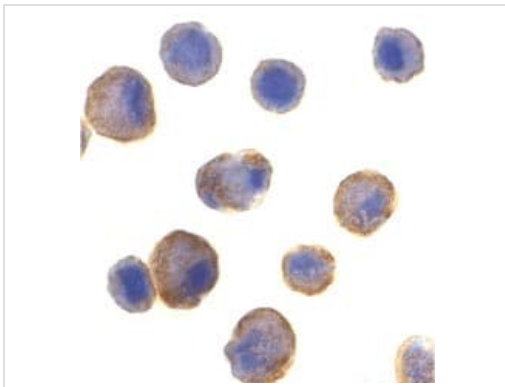
ICC analysis of 4% paraformaldehyde-fixed (room temperature for 10 minutes) HeLa cells labeling DR5 with ab8416 at 20 μ g/mL, followed by goat anti-rabbit IgG antibody (Alexa Fluor 488) at 1/500 dilution (green).

Blocking condition: 5% BSA, room temperature for 1 hour.

Primary antibody incubation: 4°C overnight.

Secondary antibody incubation: room temperature for 1 hour.

Washing condition: PBS, 3 x 3 minutes



Immunocytochemistry - Anti-DR5 antibody (ab8416)

ab8416 at 5 μ g/ml staining DR5 in Hela cells by ICC. Cells were fixed with formaldehyde and blocked with 10% serum for 1 hour at room temperature. Antigen retrieval was by heat mediation with a Citrate buffer (pH 6). Overnight primary antibody at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary.

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