

Product datasheet

Anti-DR5 antibody ab16329

★★★★★ [1 Abreviews](#) [3 References](#) [4 Images](#)

Overview

Product name	Anti-DR5 antibody
Description	Rabbit polyclonal to DR5
Host species	Rabbit
Tested applications	Suitable for: ICC, WB
Species reactivity	Reacts with: Rat, Human
Immunogen	Synthetic peptide: CVPEQEMEVQEPAEPTG , corresponding to amino acids 255-270 of Rat DR5. Run BLAST with Run BLAST with
Positive control	WB: HeLa, PC12, A549 and HEL 92.1.7 cell lysate. ICC: HeLa and HCT 116 cells
General notes	<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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: PBS, 0.1% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab16329 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
ICC		Use a concentration of 2 - 3 µg/ml.
WB	★★★★★ (1)	Use a concentration of 1 µg/ml. Predicted molecular weight: 58 kDa.

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

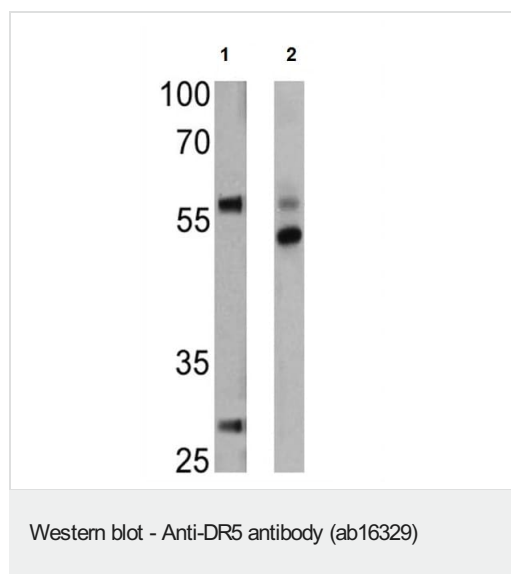
Sequence similarities

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

Cellular localization

Membrane.

Images



All lanes : Anti-DR5 antibody (ab16329) at 1/1000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : PC12 cell lysate

Lysates/proteins at 25 µg per lane.

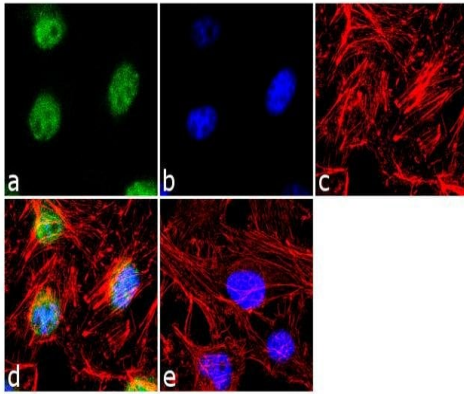
Secondary

All lanes : HRP conjugated anti-rabbit

Developed using the ECL technique.

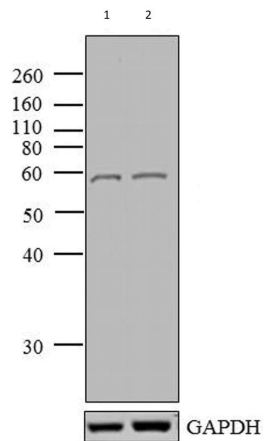
Predicted band size: 58 kDa

Observed band size: 58 kDa



Immunocytochemistry - Anti-DR5 antibody
(ab16329)

Immunocytochemistry analysis of DR5 was done on 70% confluent log phase HeLa cell. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with ab16329 at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate at a dilution of 1/2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI. F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin at 1/300. Panel d is a merged image showing nuclear localization. Panel e is a no primary antibody control. The images were captured at 60X magnification.



Western blot - Anti-DR5 antibody (ab16329)

All lanes : Anti-DR5 antibody (ab16329) at 2 µg/ml

Lane 1 : A549 cell lysate

Lane 2 : HEL 92.1.7 cell lysate

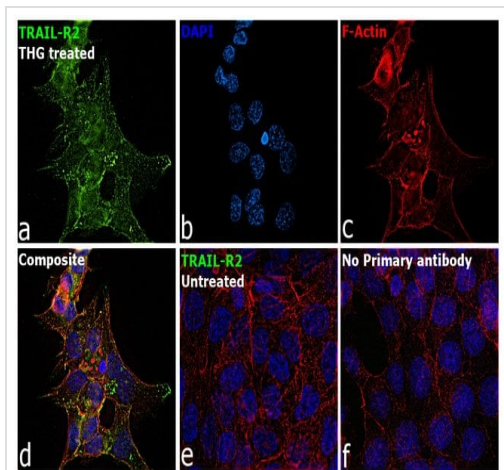
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat anti-Rabbit IgG (H+L) Superclonal™ at 1/2500 dilution

Predicted band size: 58 kDa

Detected by chemiluminescence



Immunocytochemistry - Anti-DR5 antibody
(ab16329)

Immunocytochemistry analysis of DR5 (TRAIL-R2) was performed using HCT 116 cells and HCT 116 treated with Thapsigargin (1 μ M, 36 hours). The cells were fixed with 4% paraformaldehyde for 10 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with ab16329 at 2 μ g/mL in 0.1% BSA and incubated overnight at 4 degree and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 at a dilution of 1/2000 for 45 minutes at room temperature (Panel a: green) in HCT 116 treated cells. Nuclei (Panel b: blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI. F-actin (Panel c: red) was stained with Rhodamine Phalloidin 1/300. Panel d represents the merged image of HCT116 treated cells, which shows higher expression for TRAIL-R2 protein showing localization in nucleus, cytoplasm and membrane. Panel e represents the merged image of untreated HCT 116 cells, that shows lower or no expression for TRAIL-R2 protein. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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