

## Product datasheet

# Anti-DR5 antibody [EPR22276] ab230969

Recombinant RabMAb

6 Images

### Overview

<b>Product name</b>	Anti-DR5 antibody [EPR22276]
<b>Description</b>	Rabbit monoclonal [EPR22276] to DR5
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, IP <b>Unsuitable for:</b> Flow Cyt or ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HepG2, HT-1080 and U-87 MG whole cell lysate. Doxorubicin ( <a href="#">ab120629</a> ) treated HCT116 cell lysate. IHC-P: Human colon cancer and endometrium tissue. IP: DR5 IP in U-87 MG whole cell lysate.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR22276

Isotype

IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab230969 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

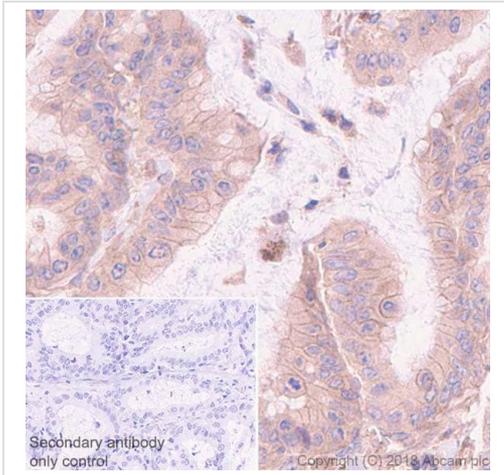
Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 47 kDa.
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/30.

**Application notes** Is unsuitable for Flow Cyt or ICC/IF.

## Target

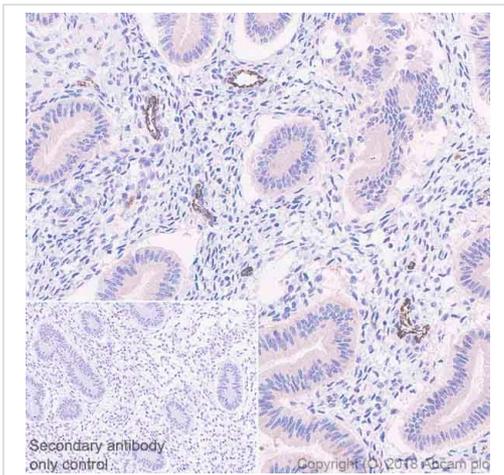
<b>Function</b>	Receptor for the cytotoxic ligand TNFSF10/TRAIL. The adapter molecule FADD recruits caspase-8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs caspase-8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis. Promotes the activation of NF-kappa-B. Essential for ER stress-induced apoptosis.
<b>Tissue specificity</b>	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.
<b>Involvement in disease</b>	Squamous cell carcinoma of the head and neck
<b>Sequence similarities</b>	Contains 1 death domain. Contains 3 TNFR-Cys repeats.
<b>Cellular localization</b>	Membrane.

## Images



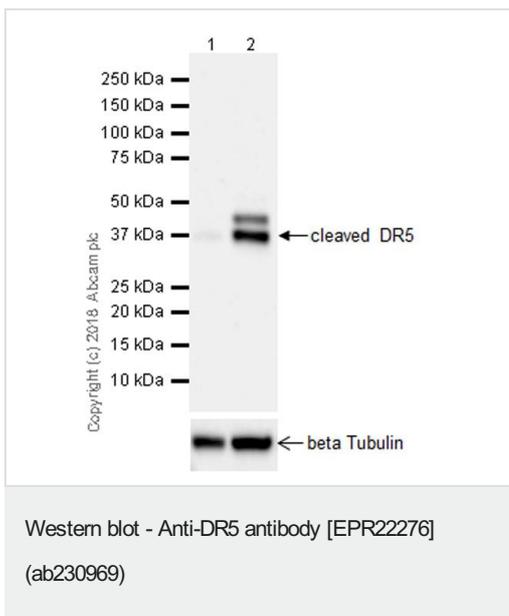
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DR5 antibody [EPR22276] (ab230969)

Immunohistochemical analysis of paraffin-embedded human colon cancer tissue labeling DR5 with ab230969 at 1/1000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Membranous and cytoplasmic staining in human colon cancer cells (PMID: 23284732) is observed. Counterstained with hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP). Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DR5 antibody [EPR22276] (ab230969)

Immunohistochemical analysis of paraffin-embedded human endometrium tissue labeling DR5 with ab230969 at 1/2000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Cytoplasmic staining in endothelial cells of human endometrium (PMID: 22789540, 12874246, 15987601) is observed. Counterstained with hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP). Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0).



**All lanes** : Anti-DR5 antibody [EPR22276] (ab230969) at 1/1000 dilution

**Lane 1** : Untreated HCT116 (human colorectal carcinoma epithelial cell), whole cell lysate

**Lane 2** : HCT116 treated with 0.5  $\mu$ M doxorubicin ([ab120629](#)) for 24 hours, whole cell lysate

Lysates/proteins at 20  $\mu$ g per lane.

### Secondary

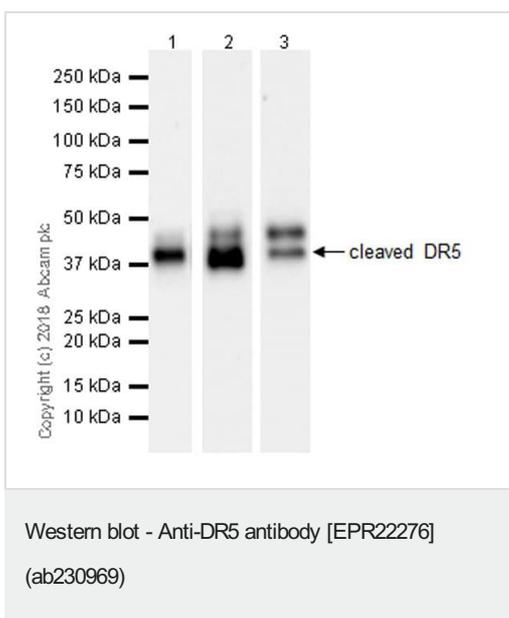
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 47 kDa

**Exposure time:** 3 minutes

The molecular weight observed is consistent with what has been described in the literature, the 40kDa band is a cleaved form (PMID: 20515924, 16297203).

**Blocking/Dilution buffer:** 5% NFDM/TBST.



**All lanes** : Anti-DR5 antibody [EPR22276] (ab230969) at 1/1000 dilution

**Lane 1** : HepG2 (human hepatocellular carcinoma epithelial cell), whole cell lysate

**Lane 2** : HT-1080 (human fibrosarcoma epithelial cell), whole cell lysate

**Lane 3** : U-87 MG (human glioblastoma-astrocytoma epithelial cell), whole cell lysate

Lysates/proteins at 20  $\mu$ g per lane.

### Secondary

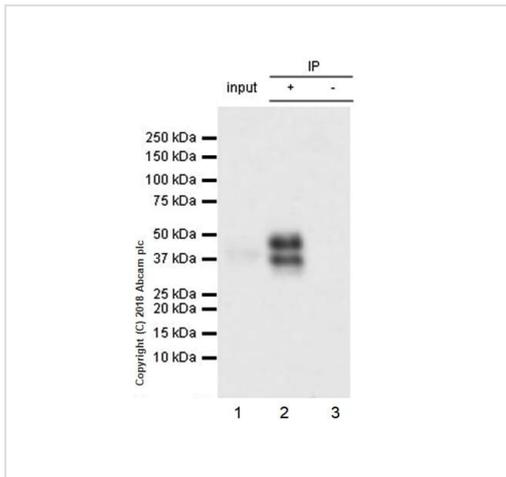
**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

**Predicted band size:** 47 kDa

The molecular weight observed is consistent with what has been described in the literature. The 40kDa band is a cleaved form (PMID: 20515924, 16297203).

**Blocking/Dilution buffer:** 5% NFDm/TBST.

**Exposure times:** Lanes 1: 3 minutes; Lanes 2-3: 59 seconds.



Immunoprecipitation - Anti-DR5 antibody  
[EPR22276] (ab230969)

DR5 was immunoprecipitated from 0.35 mg U-87 MG (human glioblastoma-astrocytoma epithelial cell) whole cell lysate with ab230969 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab230969 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/5000 dilution.

**Lane 1:** U-87 MG whole cell lysate 10 µg (Input).

**Lane 2:** ab230969 IP in U-87 MG whole cell lysate.

**Lane 3:** Rabbit monoclonal IgG ([ab172730](#)) instead of ab230969 in U-87 MG whole cell lysate.

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: 20 seconds.

The molecular weight observed is consistent with what has been described in the literature. The 40kDa band is a cleaved form (PMID: 20515924, 16297203).

Why choose a recombinant antibody?

- Research with confidence**  
Consistent and reproducible results
- Long-term and scalable supply**  
Recombinant technology
- Success from the first experiment**  
Confirmed specificity
- Ethical standards compliant**  
Animal-free production

Anti-DR5 antibody [EPR22276] (ab230969)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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