

Product datasheet

Anti-TNF Receptor II antibody [EPR1653] ab109322

Recombinant RabMAb

10 References 5 Images

Overview

<b>Product name</b>	Anti-TNF Receptor II antibody [EPR1653]
<b>Description</b>	Rabbit monoclonal [EPR1653] to TNF Receptor II
<b>Host species</b>	Rabbit
<b>Specificity</b>	We do not guarantee IHC-P for mouse and rat species.
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, WB, IP, IHC-P, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide within Human TNF Receptor II aa 400 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: <a href="#">P20333</a> (Peptide available as <a href="#">ab192471</a> )
<b>Positive control</b>	WB: Jurkat, MCF7, SW480 and THP1 cell lysates IHC-P: uterus tissue
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <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> For more information <a href="#">see here</a> .  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> .

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. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol, 9.85% Tris glycine, 50% Tissue culture supernatant
<b>Purity</b>	Tissue culture supernatant

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR1653
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab109322** in the following tested applications.

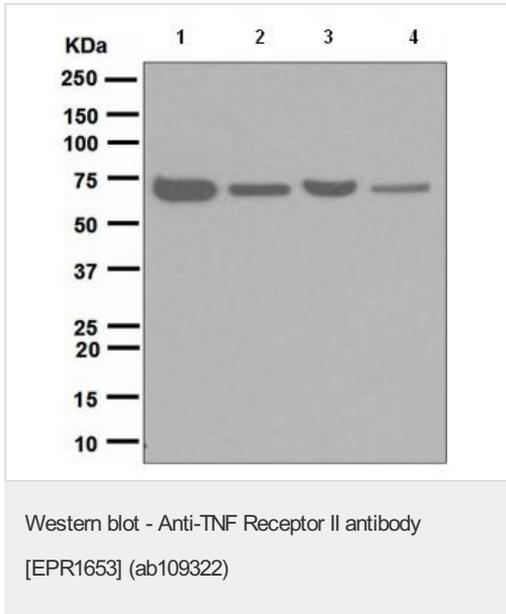
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/250 - 1/500. For best results in ICC/IF please use 100% Methanol fixation.
WB		1/10000 - 1/50000. Detects a band of approximately 73 kDa (predicted molecular weight: 48 kDa).Can be blocked with <a href="#">TNF Receptor II peptide (ab192471)</a> .
IP		1/10 - 1/100.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Antigen retrieval is recommended. We do not guarantee IHC-P for mouse and rat species.
Flow Cyt		1/10 - 1/100. <a href="#">ab172730</a> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

## Target

<b>Function</b>	Receptor with high affinity for TNFSF2/TNF-alpha and approximately 5-fold lower affinity for homotrimeric TNFSF1/lymphotoxin-alpha. The TRAF1/TRAF2 complex recruits the apoptotic suppressors BIRC2 and BIRC3 to TNFRSF1B/TNFR2. This receptor mediates most of the metabolic effects of TNF-alpha. Isoform 2 blocks TNF-alpha-induced apoptosis, which suggests that it regulates TNF-alpha function by antagonizing its biological activity.
<b>Sequence similarities</b>	Contains 4 TNFR-Cys repeats.
<b>Post-translational modifications</b>	Phosphorylated; mainly on serine residues and with a very low level on threonine residues. A soluble form (tumor necrosis factor binding protein 2) is produced from the membrane form by proteolytic processing.
<b>Cellular localization</b>	Secreted and Cell membrane.

## Images



**All lanes** : Anti-TNF Receptor II antibody [EPR1653] (ab109322) at 1/10000 dilution

**Lane 1** : Jurkat cell lysate

**Lane 2** : MCF7 cell lysate

**Lane 3** : SW480 cell lysate

**Lane 4** : THP1 cell lysate

Lysates/proteins at 10 µg per lane.

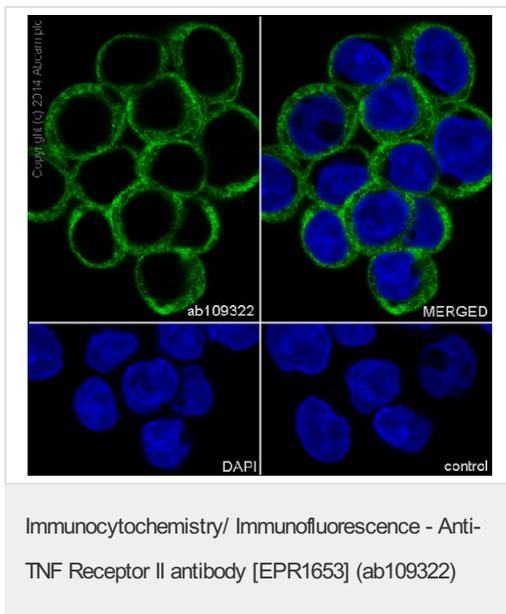
### Secondary

**All lanes** : HRP labelled goat anti-rabbit at 1/2000 dilution

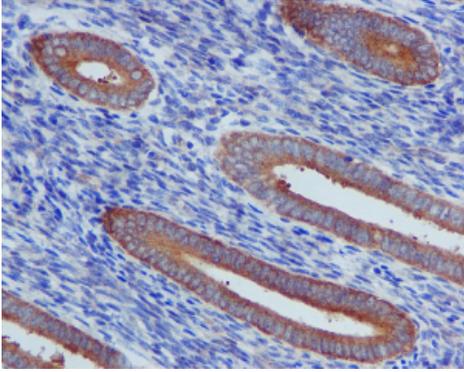
**Predicted band size:** 48 kDa

**Observed band size:** 73 kDa

[why is the actual band size different from the predicted?](#)



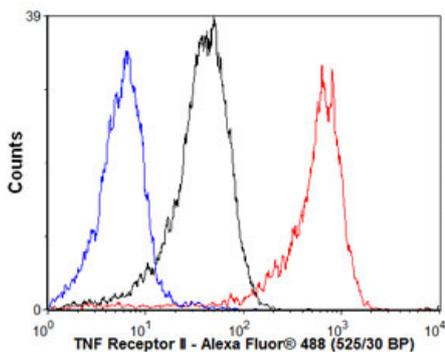
ab109322 staining TNF Receptor II in SW480 cells. The cells were fixed with 100% methanol. In our hands PFA fixed cells did not produce good results with this antibody. Nuclear DNA was labelled in blue with DAPI.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TNF Receptor II antibody [EPR1653] (ab109322)

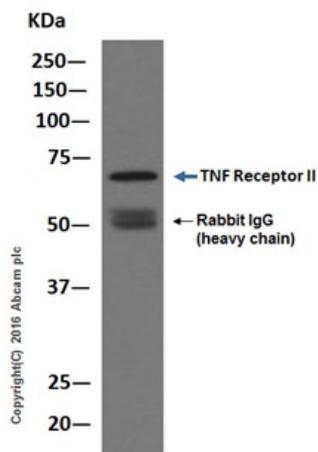
ab109322, at a 1/100 dilution, staining TNF Receptor II in paraffin embedded Human uterus tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Flow Cytometry - Anti-TNF Receptor II antibody [EPR1653] (ab109322)

Overlay histogram showing HL60 cells stained with ab109322 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab109322, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) (ab150077) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10<sup>6</sup> cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.



Immunoprecipitation - Anti-TNF Receptor II antibody [EPR1653] (ab109322)

Primary: ab109322, 1/1000 dilution

Sample: Jurkat whole cell lysate, 100 µg

Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated, 1/1000 dilution

Capture antibody: 1:40 dilution (1 µg in 1 mg lysate)

Blocking and diluting buffer: 5% NFD/MTBST

Anti-TNF Receptor II antibody [EPR1653] (ab109322) at 1/1000 dilution + Jurkat whole cell lysate at 100 µg

#### Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

**Observed band size:** 73 kDa [why is the actual band size different from the predicted?](#)

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

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