**Product datasheet**

**Anti-TNF Receptor I antibody ab19139**

★★★★☆ 17 Abreviews  74 References  4 Images

**Overview**

**Product name**  
Anti-TNF Receptor I antibody

**Description**  
Rabbit polyclonal to TNF Receptor I

**Host species**  
Rabbit

**Tested applications**  
*Suitable for:* WB, IHC-P, Flow Cyt, ICC/IF

**Species reactivity**  
*Reacts with:* Mouse, Rat, Sheep, Rabbit, Hamster, Cow, Dog, Human, Pig, Xenopus laevis, Drosophila melanogaster, Monkey

**Immunogen**  
Synthetic peptide corresponding to Mouse TNF Receptor I aa 29-43.

**Positive control**  
HeLa heat shocked cell lysate.

**Properties**

**Form**  
Liquid

**Storage instructions**  
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

**Storage buffer**  
Preservative: 0.09% Sodium azide  
Constituent: 50% Glycerol

**Purity**  
Protein G purified

**Clonality**  
Polyclonal

**Isotype**  
IgG

**Applications**

Our **Abpromise guarantee** covers the use of **ab19139** in the following tested applications.

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

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>★★★☆☆☆</td>
<td>Use a concentration of 1 µg/ml. Detects a band of approximately 55 kDa.</td>
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<tr>
<td>IHC-P</td>
<td>★★★☆☆☆</td>
<td>1/1000. Antigen retrieval is not essential but may optimise staining. Incubate for 1 hour at RT.</td>
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</table>
Function
Receptor for TNFSF2/TNF-alpha and homotrimeric TNFSF1/lymphotoxin-alpha. 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. Contributes to the induction of non-cytocidal TNF effects including anti-viral state and activation of the acid sphingomyelinase.

Involvement in disease
Familial hibernian fever
Multiple sclerosis 5

Sequence similarities
Contains 1 death domain.
Contains 4 TNFR-Cys repeats.

Domain
The domain that induces A-SMASE is probably identical to the death domain. The N-SMASE activation domain (NSD) is both necessary and sufficient for activation of N-SMASE. Both the cytoplasmic membrane-proximal region and the C-terminal region containing the death domain are involved in the interaction with TRPC4AP.

Post-translational modifications
The soluble form is produced from the membrane form by proteolytic processing.

Cellular localization
Cell membrane. Golgi apparatus membrane. Secreted. A secreted form is produced through proteolytic processing and Secreted. Lacks a Golgi-retention motif, is not membrane bound and therefore is secreted.

Images
Western blot analysis of mouse RAW 264 cell lysate.
Western blot - Anti-TNF Receptor I antibody (ab19139)
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TNF Receptor I antibody (ab19139)

Ab19139 staining human normal placenta. Staining is localized to cell membrane and secreted.

Left panel: with primary antibody at 1 ug/ml. Right panel: isotype control.

Sections were stained using an automated system DAKO Autostainer Plus, at room temperature. Sections were rehydrated and antigen retrieved with the Dako 3-in-1 AR buffers EDTA pH 9.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes.

Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be required.

Western blot - Anti-TNF Receptor I antibody (ab19139) at 1/1000 dilution + Human 293T whole cell lysate at 30000 cells

Secondary
An HRP-conjugated goat anti-rabbit IgG polyclonal at 1/5000 dilution

Observed band size: 52 kDa
why is the actual band size different from the predicted?

Additional bands at: 45 kDa (possible non-specific binding), 48 kDa (possible non-specific binding)

Blocking Step: 5% Milk + 1% BSA for 16 hours at 4°C
Gel Running Conditions: Reduced, Denaturing 12% Bis-Tris
ab19139 staining TNF Receptor I in Human platelet cells by Flow cytometry.
Cells were fixed in paraformaldehyde and permeabilized using 0.1% Triton-X-100 in 2% BSA for 15 minutes. Primary antibody used at a 1/100 dilution and incubated for 16 hours at 4°C. The secondary antibody used was an Alexa Fluor®488 conjugated chicken anti-rabbit IgG (H+L) at a 1/500 dilution.

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

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