

Product datasheet

Anti-TNF Receptor I antibody [EPR23742-65] ab259817

KO VALIDATED

Recombinant

RabMAb

[1 References](#) [3 Images](#)

Overview

Product name	Anti-TNF Receptor I antibody [EPR23742-65]
Description	Rabbit monoclonal [EPR23742-65] to TNF Receptor I
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt (Intra), ICC/IF, IHC-P or IP
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Wild-type HeLa, A549, HeLa and HepG2 lysates.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23742-65
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab259817 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: 50 kDa.

Application notes

Is unsuitable for Flow Cyt (Intra), ICC/IF, IHC-P or IP.

Target

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.

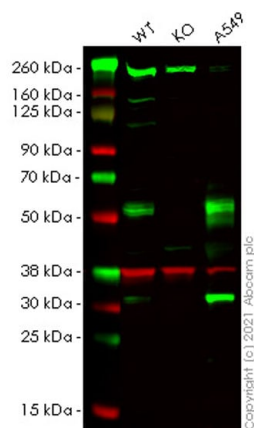
Post-translational modifications

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 - Anti-TNF Receptor I antibody
[EPR23742-65] (ab259817)

All lanes : Anti-TNF Receptor I antibody [EPR23742-65]
(ab259817) at 1/1000 dilution

Lane 1 : Wild-type HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : TNFRSF1A (TNF Receptor I) knockout HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 3 : A549 (human lung carcinoma epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (IRDye® 800CW)
([ab216773](#)) and Goat Anti-Mouse IgG H&L (IRDye® 680RD)
([ab216776](#)) at 1/10000 dilution

Predicted band size: 50 kDa

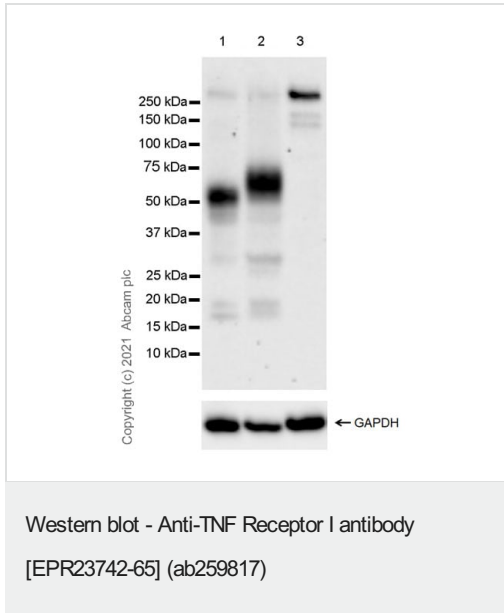
Observed band size: 50-70 kDa

Blocking and diluting buffer and concentration: 3% NFDM/TBST

Lanes 1-3: Merged signal (red and green). Green - ab259817 observed at 51 kDa. Red - loading control [ab8245](#) (Mouse monoclonal [6C5] to GAPDH) observed at 36 kDa.

ab259817 Anti-TNF Receptor I antibody [EPR23742-65] was shown to specifically react with TNF Receptor I in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab265972](#) (knockout cell lysate [ab257751](#)) was used. Wild-type and TNF Receptor I knockout samples were subjected to SDS-PAGE. ab259817 and Anti-GAPDH antibody [6C5] - Loading Control ([ab8245](#)) were incubated at 4? overnight at 1 in 1000

dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 10000 dilution for 1 hour at room temperature before imaging.



All lanes : Anti-TNF Receptor I antibody [EPR23742-65] (ab259817) at 1/1000 dilution

Lane 1 : HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysate

Lane 3 : Raji (human Burkitt's lymphoma B lymphocyte) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/50000 dilution

Predicted band size: 50 kDa

Observed band size: 50-70 kDa

Blocking and diluting buffer and concentration: 5% NFDm/TBST

The difference in target band size observed in HeLa and HepG2 cell lysates is caused by glycosylation.

Negative control: Raji (PMID: 1966549; PMID: 2158104).

Exposure time: 81 seconds

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-TNF Receptor I antibody [EPR23742-65]
(ab259817)

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

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