abcam

Product datasheet

Anti-TID1 antibody [EPR12414] ab181024

Recombinant RabMAb

1 References 4 Images

Overview

Product name	Anti-TID1 antibody [EPR12414]
Description	Rabbit monoclonal [EPR12414] to TID1
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF, IP
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	JAR, Jurkat, HeLa and K562 cell lysate. HeLa cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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 long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 59% PBS, 0.05% BSA
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR12414
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab181024 in the following tested applications.

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

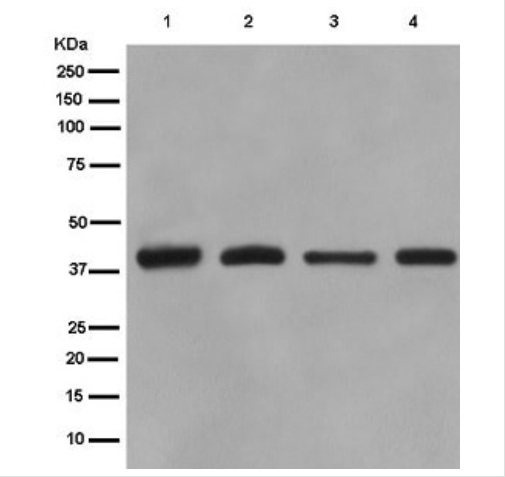
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 52 kDa.
ICC/IF		1/100 - 1/250.
IP		1/30.

Target

Relevance TID1 is a human homolog of the Drosophila tumor suppressor lethal tumerous imaginal discs and encodes two mitochondrial matrix localized splice variants of human Tid1 designated hTid1S and hTid1L. These proteins are the conserved members of the DnaJ family of proteins which act as cochaperons for mitochondrial Hsp70. They contain a conserved tetrahedrical J domain which binds to Hsp70 chaperones and activates their ATPase activity. Expression of hTid1L increases apoptosis induced by DNA damaging agents as mitomycin C and TNF alpha. A J domain mutant of hTid1L can dominantly suppress apoptosis and in sharp contrast the J domain mutant of hTid1S increases apoptosis. Expression of hTid1S and hTid1L affects cytochrome c release from the mitochondria and caspase 3 activation, while activation of caspase 8 is unaffected. It is strongly suggested that these two splice variants exert their anti and pro apoptotic effects through discrete substrates and activities. Hence the relative abundance of these proteins or their substrates may allow the mitochondria to dampen or enhance the apoptotic signals.

Cellular localization Mitochondrial

Images



Western blot - Anti-TID1 antibody [EPR12414] (ab181024)

All lanes : Anti-TID1 antibody [EPR12414] (ab181024) at 1/5000 dilution

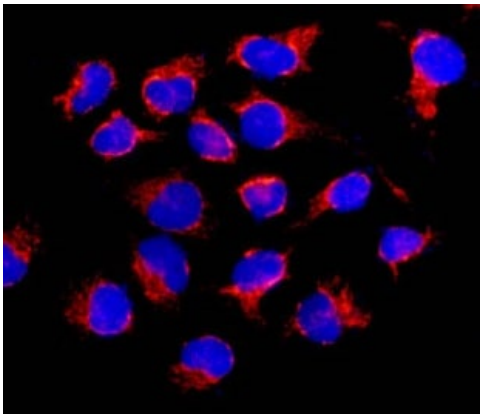
Lane 1 : JAR cell lysate
Lane 2 : Jurkat cell lysate
Lane 3 : HeLa cell lysate
Lane 4 : K562 cell lysate

Lysates/proteins at 20 µg per lane.

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

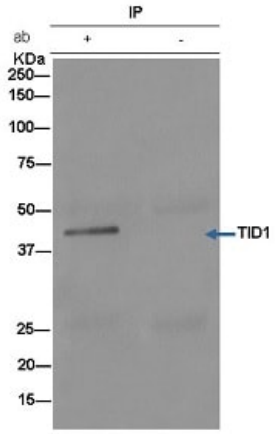
Predicted band size: 52 kDa

Blocking/ Dilution buffer: 5% NFDM /TBST.



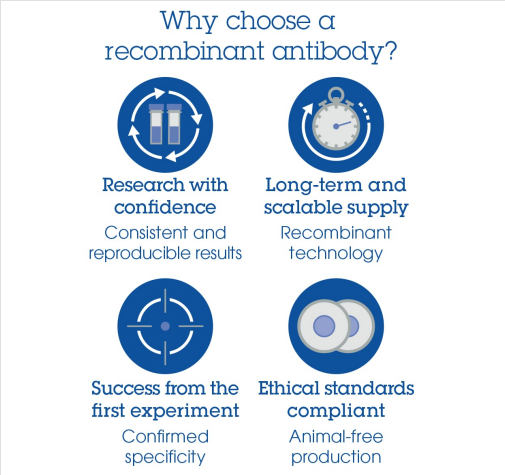
Immunocytochemistry/ Immunofluorescence - Anti-TID1 antibody [EPR12414] (ab181024)

Immunofluorescent analysis of acetone fixed HeLa cells labeling TID1 using ab181024 at a 1/250 dilution. A Goat anti rabbit IgG (Alexa Fluor®555) was used as the secondary at a 1/200 dilution. Counterstain DAPI.



Immunoprecipitation - Anti-TID1 antibody [EPR12414] (ab181024)

Lysate from Jurkat cells (Lane 1) and negative control (Lane 2) were immunoprecipitated with ab181024 at a 1/30 dilution. A specific to the non-reduced form of IgG at a 1/1500 dilution for the secondary. Blocking/ Dilution buffer: 5% NFDM/TBST.



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