

Product datasheet

Anti-TRPS1 antibody ab125197

★★★★★ 1 Abreviews 3 Images

Overview

<b>Product name</b>	Anti-TRPS1 antibody
<b>Description</b>	Rabbit polyclonal to TRPS1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Rabbit, Horse, Chicken, Guinea pig, Cow, Dog, Turkey, Pig, Chimpanzee, Rhesus monkey, Gorilla, Orangutan, Platypus 
<b>Immunogen</b>	Synthetic peptide, corresponding to a region within amino acids 1000-1050 of Human TRPS1 (AAG21134.1).
<b>Positive control</b>	Jurkat whole cell lysate ( <a href="#">ab7899</a> ) can be used as a positive control in WB. Whole cell lysate from HeLa and 293T cells.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.09% Sodium azide Constituent: 99% Tris citrate/phosphate  pH 7 to 8.
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab125197** in the following tested applications.

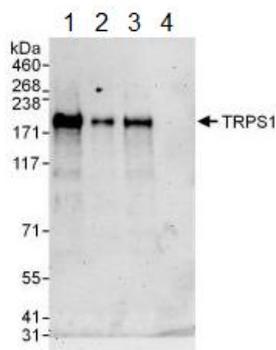
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆	1/2000 - 1/10000. Predicted molecular weight: 142 kDa.
IP		Use at 2-10 µg/mg of lysate.

## Target

<b>Function</b>	Transcriptional repressor. Binds specifically to GATA sequences and represses expression of GATA-regulated genes at selected sites and stages in vertebrate development. Regulates chondrocyte proliferation and differentiation. Executes multiple functions in proliferating chondrocytes, expanding the region of distal chondrocytes, activating proliferation in columnar cells and supporting the differentiation of columnar into hypertrophic chondrocytes.
<b>Tissue specificity</b>	Ubiquitously expressed in the adult. Found in fetal brain, lung, kidney, liver, spleen and thymus. More highly expressed in androgen-dependent than in androgen-independent prostate cancer cells.
<b>Involvement in disease</b>	<p>Defects in TRPS1 are the cause of tricho-rhino-phalangeal syndrome type 1 (TRPS1) [MIM:190350]. TRPS1 is an autosomal dominant disorder characterized by craniofacial and skeletal abnormalities. It is allelic with tricho-rhino-phalangeal type 3. Typical features include sparse scalp hair, a bulbous tip of the nose, protruding ears, a long flat philtrum and a thin upper vermilion border. Skeletal defects include cone-shaped epiphyses at the phalanges, hip malformations and short stature.</p> <p>Defects in TRPS1 are a cause of tricho-rhino-phalangeal syndrome type 2 (TRPS2) [MIM:150230]. A syndrome that combines the clinical features of trichorhinophalangeal syndrome type 1 and multiple exostoses type 1. Affected individuals manifest multiple dysmorphic facial features including large, laterally protruding ears, a bulbous nose, an elongated upper lip, as well as sparse scalp hair, winged scapulae, multiple cartilaginous exostoses, redundant skin, and mental retardation. Note=A chromosomal aberration resulting in the loss of functional copies of TRPS1 and EXT1 has been found in TRPS2 patients.</p> <p>Defects in TRPS1 are the cause of tricho-rhino-phalangeal syndrome type 3 (TRPS3) [MIM:190351]. TRPS3 is an autosomal dominant disorder characterized by craniofacial and skeletal abnormalities. It is allelic with tricho-rhino-phalangeal type 1. In TRPS3 a more severe brachydactyly and growth retardation are observed.</p>
<b>Sequence similarities</b>	<p>Contains 7 C2H2-type zinc fingers.</p> <p>Contains 1 GATA-type zinc finger.</p>
<b>Post-translational modifications</b>	Sumoylated. Sumoylation in the repressor domain inhibits the transcription repression activity. Sumoylation on Lys-1201 is the major site. Appears to be sumoylated on multiple sites.
<b>Cellular localization</b>	Nucleus.

## Images



Western blot - Anti-TRPS1 antibody (ab125197)

**All lanes :** Anti-TRPS1 antibody (ab125197) at 0.1 µg/ml

**Lane 1 :** HeLa whole cell lysate at 50 µg

**Lane 2 :** HeLa whole cell lysate at 15 µg

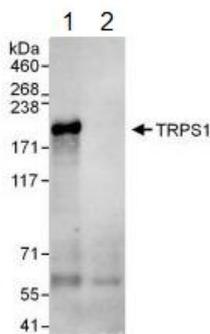
**Lane 3 :** 293T whole cell lysate at 50 µg

**Lane 4 :** Jurkat whole cell lysate at 50 µg

Developed using the ECL technique.

**Predicted band size:** 142 kDa

**Exposure time:** 3 minutes



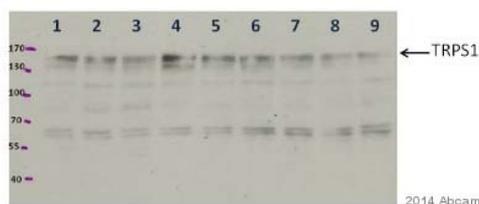
Immunoprecipitation - Anti-TRPS1 antibody (ab125197)

ab125197 at 1 µg/ml staining TRPS1 by WB, following immunoprecipitation of whole cell lysate from HeLa cells.

Lane 1; IP using ab125197 at 6 µg/mg lysate.

Lane 2; IP using control IgG.

1 mg of lysate was used for IP and 20% of IP was loaded. Detection utilised Chemiluminescence with a 30 second exposure.



Western blot - Anti-TRPS1 antibody (ab125197)

This image is courtesy of an anonymous Abreview

**All lanes :** Anti-TRPS1 antibody (ab125197) at 1/500 dilution

**Lane 1 :** Ha-Ras-transformed EpH4 cells - nuclear extracts

**Lanes 2-3 :** EpF-2 and EpF-1 (Eph4 subclones expressing high amounts of Zeb1 and Zeb2 mRNA) - nuclear extracts

**Lane 4 :** EpH4 (parental) - nuclear extracts

**Lane 5 :** EpF-2 - nuclear extracts

**Lanes 6-7 :** EpF-Z1.1 and EpF-Z1.2 (EpF-1 clones transfected with siRNA to knockdown Zeb1) - nuclear extracts

**Lanes 8-9 :** EpF-Z2.1 and EpF-Z2.2 (EpF-1 clones transfected with siRNA to knockdown Zeb2) - nuclear extracts

Lysates/proteins at 25 µg per lane.

**Secondary**

**All lanes** : HRP-conjugated donkey anti-rabbit IgG polyclonal at 1/10000 dilution

Performed under reducing conditions.

**Predicted band size:** 142 kDa

**Exposure time:** 20 seconds

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

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