


Product datasheet

Anti-TRIM24 antibody ab211300

[1 References](#) [4 Images](#)

Overview

Product name	Anti-TRIM24 antibody
Description	Rabbit polyclonal to TRIM24
Host species	Rabbit
Specificity	At least two isoforms of TRIM24 are known to exist.
Tested applications	Suitable for: WB, ICC/IF, IHC-P, ICC
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat 
Immunogen	Synthetic peptide corresponding to Human TRIM24 (internal sequence). 19 amino acid peptide. AAD17258.1. Database link: O15164-2
Positive control	Human testis tissue; EL4 cells and cell lysate.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituent: 99% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab211300 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		Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 113 kDa.
ICC/IF		Use a concentration of 20 µg/ml.
IHC-P		Use a concentration of 10 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC		Use a concentration of 2.5 µg/ml.

Target

Function

Transcriptional coactivator that interacts with numerous nuclear receptors and coactivators and modulates the transcription of target genes. Interacts with chromatin depending on histone H3 modifications, having the highest affinity for histone H3 that is both unmodified at 'Lys-4' (H3K4me0) and acetylated at 'Lys-23' (H3K23ac). Has E3 protein-ubiquitin ligase activity. Promotes ubiquitination and proteasomal degradation of p53/TP53. Plays a role in the regulation of cell proliferation and apoptosis, at least in part via its effects on p53/TP53 levels. Up-regulates ligand-dependent transcription activation by AR, GCR/NR3C1, thyroid hormone receptor (TR) and ESR1. Modulates transcription activation by retinoic acid (RA) receptors, including RARA. Plays a role in regulating retinoic acid-dependent proliferation of hepatocytes.

Pathway

Protein modification; protein ubiquitination.

Involvement in disease

Defects in TRIM24 are a cause of thyroid papillary carcinoma (TPC) [MIM:188550]. TPC is a common tumor of the thyroid that typically arises as an irregular, solid or cystic mass from otherwise normal thyroid tissue. Papillary carcinomas are malignant neoplasm characterized by the formation of numerous, irregular, finger-like projections of fibrous stroma that is covered with a surface layer of neoplastic epithelial cells. Note=A chromosomal aberration involving TRIM24/TIF1 is found in thyroid papillary carcinomas. Translocation t(7;10)(q32;q11) with RET. The translocation generates the TRIM24/RET (PTC6) oncogene.

Sequence similarities

Contains 2 B box-type zinc fingers.
Contains 1 bromo domain.
Contains 1 PHD-type zinc finger.
Contains 1 RING-type zinc finger.

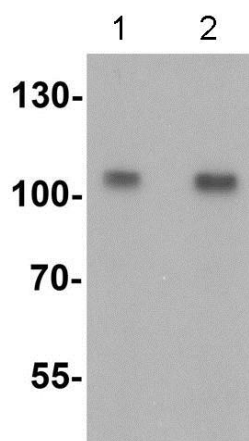
Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.
Sumoylated.

Cellular localization

Nucleus. Cytoplasm. Colocalizes with sites of active transcription. Detected both in nucleus and cytoplasm in some breast cancer samples. Predominantly nuclear.

Images



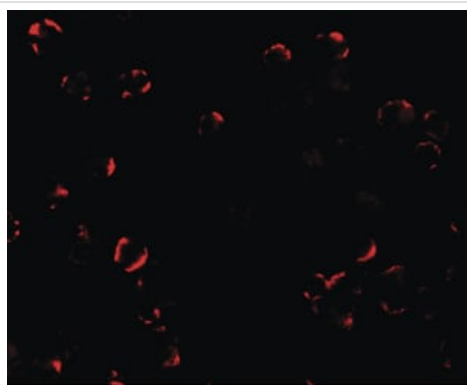
Western blot - Anti-TRIM24 antibody (ab211300)

Lane 1 : Anti-TRIM24 antibody (ab211300) at 0.5 µg/ml

Lane 2 : Anti-TRIM24 antibody (ab211300) at 1 µg/ml

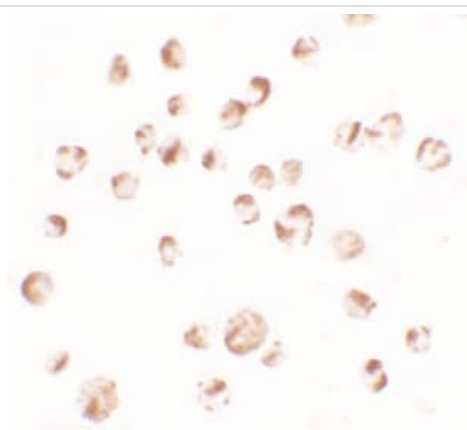
All lanes : EL4 cell lysate

Predicted band size: 113 kDa



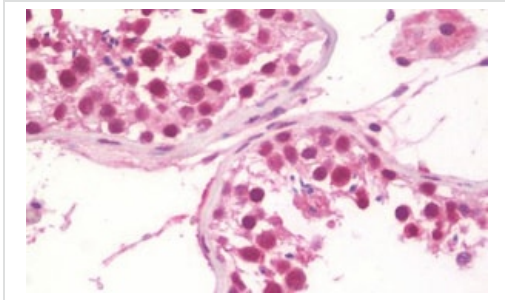
Immunocytochemistry/ Immunofluorescence - Anti-TRIM24 antibody (ab211300)

Immunofluorescent analysis of EL4 (mouse) cells labeling TRIM24 with ab211300 at 20 µg/ml.



Immunocytochemistry - Anti-TRIM24 antibody (ab211300)

Immunocytochemical analysis of EL4 (mouse) cells labelling TRIM24 with ab211300 at 2.5 µg/ml.



Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human testis tissue labelling TRIM24 with ab211300 at 10µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRIM24 antibody (ab211300)

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