



Product datasheet

Anti-TC-2 antibody ab233429

3 Images

Overview

Product name	Anti-TC-2 antibody
Description	Rabbit polyclonal to TC-2
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Recombinant fragment
Immunogen	<p>Recombinant full length protein (His-tag) corresponding to Rat TC-2 aa 19-427. (Expressed in E.coli).</p> <p>Sequence:</p> <pre> EFCVIPKMDGQLVEKLGQRLLPWMDRLSSEQLNPSIYVGL RLSSMQAGTK ENLYLHNLKLHYQQCLLRSTSSDDNSGCQTKISGGSLALYL LALRANCEL LGSRKGDRMVSQLKWFLEDEKKAIGHHHEGHPHTSYQY GLSILALCVHR KRVHDSVVGKLLYAVEHDYFTYQGHLSDTEAMAGLAFT CLERFNFNSDL RPRITTAIETVREKILKAQAPEGYFGNIYSTPLALQMLMTSP GVGLGPAC LKARKSLLLSLQDGAFQNPMMISQLLPVLNHKTYLNLISPD CQAPRVMLV PATEDPVHLSEVSVTLKVSSVLPPYERTVSVFAGASLED VLNRARDLGEF TYGTQASLSGPYLTSVLGKEAGDREYWQLLRVPDTPLLQ GIADYKPKNGE TIELRLVKM </pre> <p>Database link: Q9R0D6</p> <p style="text-align: right;">  Run BLAST with  Run BLAST with </p>
Positive control	WB: Recombinant rat TC-2 protein; Rat serum. IHC-P: Rat prostate gland tissue.
General notes	<p>Previously labelled as TCN2.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p>

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&As.

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: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol
Purity	Immunogen affinity purified
Purification notes	ab233429 was purified by antigen-specific affinity chromatography followed by Protein A affinity chromatography.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab233429** 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 0.2 - 2 µg/ml. Predicted molecular weight: 47 kDa.
IHC-P		Use a concentration of 5 - 20 µg/ml.

Target

Function	Primary vitamin B12-binding and transport protein. Delivers cobalamin to cells.
Involvement in disease	Defects in TCN2 are the cause of transcobalamin II deficiency (TCN2 deficiency) [MIM:275350].

This results in various forms of anemia.

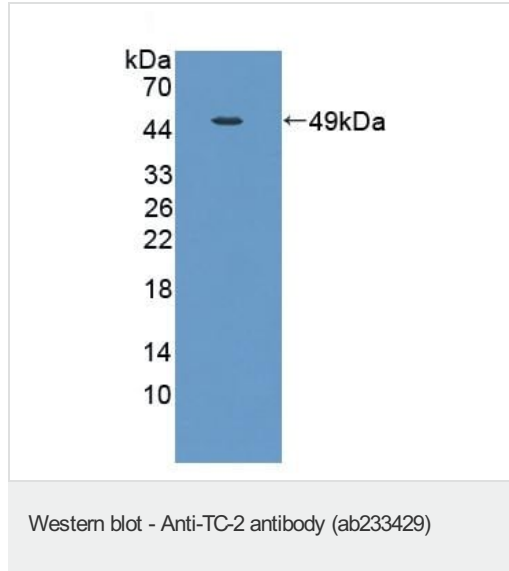
Sequence similarities

Belongs to the eukaryotic cobalamin transport proteins family.

Cellular localization

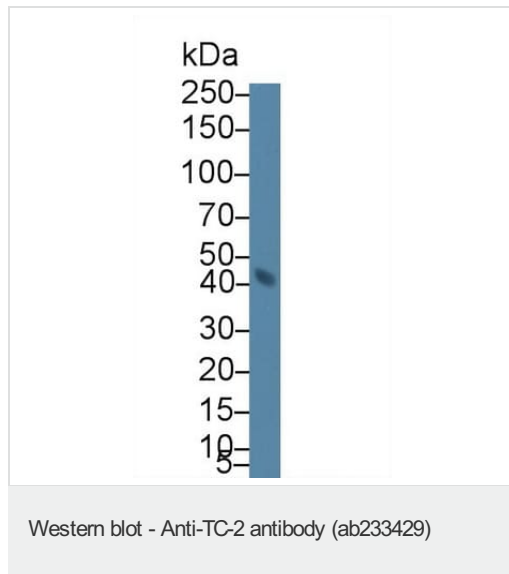
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Images



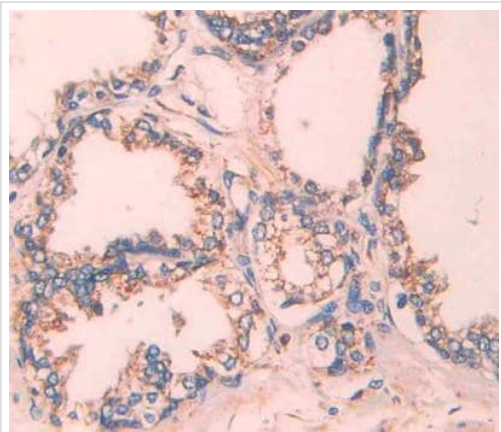
Anti-TC-2 antibody (ab233429) at 2 µg/ml + Recombinant rat TC-2 protein

Predicted band size: 47 kDa



Anti-TC-2 antibody (ab233429) at 2 µg/ml + Rat serum

Predicted band size: 47 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TC-2 antibody (ab233429)

Formalin-fixed, paraffin-embedded rat prostate gland tissue stained for TC-2 using ab233429 at 20 µg/ml in immunohistochemical analysis. DAB staining.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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