

Anti-RNF4 antibody **ab230438**

2 Images

Overview

Product name	Anti-RNF4 antibody
Description	Rabbit polyclonal to RNF4
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human RNF4 aa 95-123 (C terminal) conjugated to keyhole limpet haemocyanin. The exact sequence is proprietary. Database link: P78317
Positive control	WB: LNCaP cell lysate. IHC-P: Human colon tissue.
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: 0.09% Sodium azide Constituent: PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab230438 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: 21 kDa.
IHC-P		1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Target

Function

E3 ubiquitin-protein ligase which binds polysumoylated chains covalently attached to proteins and mediates 'Lys-6'-, 'Lys-11'-, 'Lys-48'-' and 'Lys-63'-linked polyubiquitination of those substrates and their subsequent targeting to the proteasome for degradation. Regulates the degradation of several proteins including PML and the transcriptional activator PEA3. Involved in chromosome alignment and spindle assembly, it regulates the kinetochore CENPH-CENPI-CENPK complex by targeting polysumoylated CENPI to proteasomal degradation. Regulates the cellular responses to hypoxia and heat shock through degradation of respectively EPAS1 and PARP1. Alternatively, it may also bind DNA/nucleosomes and have a more direct role in the regulation of transcription for instance enhancing basal transcription and steroid receptor-mediated transcriptional activation.

Tissue specificity

Widely expressed at low levels in many tissues; highly expressed in testis.

Pathway

Protein modification; protein ubiquitination.

Sequence similarities

Contains 1 RING-type zinc finger.

Domain

The RING-type zinc finger domain is required for the ubiquitination of polysumoylated substrates.

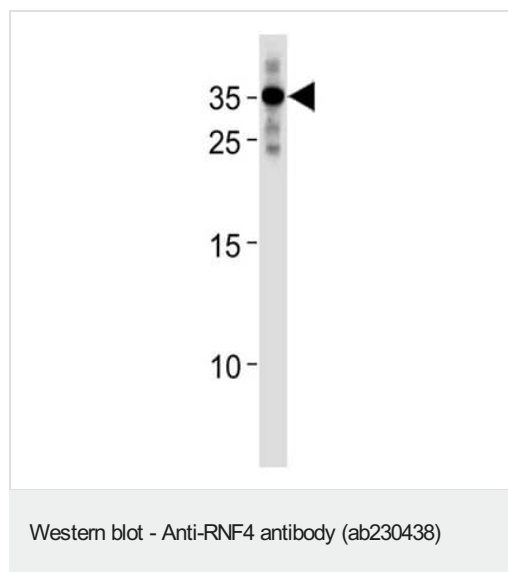
Post-translational modifications

Sumoylated; conjugated by one or two SUMO1 moieties.
Autoubiquitinated.

Cellular localization

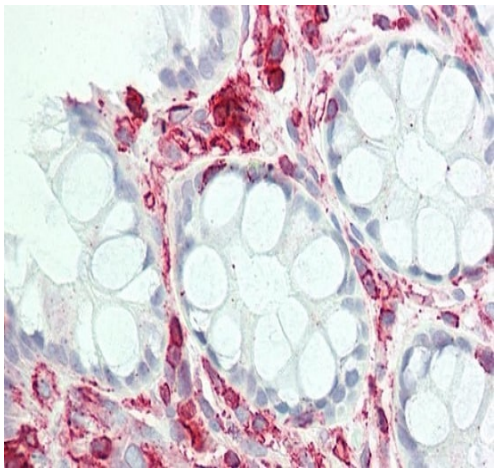
Cytoplasm. Nucleus. Nucleus > PML body. Nucleus > nucleoplasm.

Images



Anti-RNF4 antibody (ab230438) at 1/1000 dilution + LCNCaP
(human prostate cancer cell line) cell lysate at 35 µg

Predicted band size: 21 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-RNF4 antibody (ab230438)

Formalin-fixed, paraffin-embedded human colon tissue stained for RNF4 using ab230438 at 1/100 dilution in immunohistochemical analysis.

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

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