

Datasheet for ABIN6243923
anti-TPR antibody (C-Term)[Go to Product page](#)

1 Image

Overview

Quantity:	400 µL
Target:	TPR
Binding Specificity:	AA 2026-2060, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TPR antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This TPR antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 2026-2060 amino acids from the C-terminal region of human TPR.
Clone:	RB52975
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	TPR
Alternative Name:	TPR (TPR Products)
Background:	Component of the nuclear pore complex (NPC), a complex required for the trafficking across

Target Details

the nuclear envelope. Functions as a scaffolding element in the nuclear phase of the NPC essential for normal nucleocytoplasmic transport of proteins and mRNAs, plays a role in the establishment of nuclear-peripheral chromatin compartmentalization in interphase, and in the mitotic spindle checkpoint signaling during mitosis. Involved in the quality control and retention of unspliced mRNAs in the nucleus, in association with NUP153, regulates the nuclear export of unspliced mRNA species bearing constitutive transport element (CTE) in a NXF1- and KHDRBS1-independent manner. Negatively regulates both the association of CTE-containing mRNA with large polyribosomes and translation initiation. Does not play any role in Rev response element (RRE)-mediated export of unspliced mRNAs. Implicated in nuclear export of mRNAs transcribed from heat shock gene promoters, associates both with chromatin in the HSP70 promoter and with mRNAs transcribed from this promoter under stress-induced conditions. Modulates the nucleocytoplasmic transport of activated MAPK1/ERK2 and huntingtin/HTT and may serve as a docking site for the XPO1/CRM1-mediated nuclear export complex. According to some authors, plays a limited role in the regulation of nuclear protein export (PubMed:< a href="http://www.uniprot.org/citations/22253824" target="_blank">22253824 and PubMed:< a href="http://www.uniprot.org/citations/11952838" target="_blank">11952838). Plays also a role as a structural and functional element of the perinuclear chromatin distribution, involved in the formation and/or maintenance of NPC-associated perinuclear heterochromatin exclusion zones (HEZs). Finally, acts as a spatial regulator of the spindle-assembly checkpoint (SAC) response ensuring a timely and effective recruitment of spindle checkpoint proteins like MAD1L1 and MAD2L1 to unattached kinetochore during the metaphase-anaphase transition before chromosome congression. Its N-terminus is involved in activation of oncogenic kinases.

Molecular Weight:	267293
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UniProt:	P12270
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Application Details

Application Notes:	WB: 1:2000
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Restrictions:	For Research Use only
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Handling

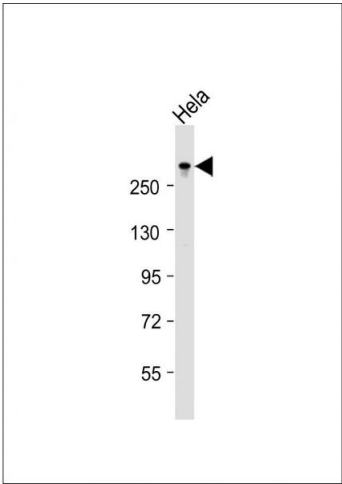
Format:	Liquid
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Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
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Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Images



Western Blotting

Image 1. Anti-TPR Antibody (C-term) at 1:2000 dilution + HeLa whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 267 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.