

## Product datasheet

### Anti-TPR antibody [EPR8982] ab170940

Recombinant RabMAb

[3 References](#) [3 Images](#)

#### Overview

Product name	Anti-TPR antibody [EPR8982]
Description	Rabbit monoclonal [EPR8982] to TPR
Host species	Rabbit
Tested applications	<b>Suitable for:</b> ICC/IF, WB <b>Unsuitable for:</b> Flow Cyt, IHC-P or IP
Species reactivity	<b>Reacts with:</b> Human <b>Does not react with:</b> Mouse, Rat
Immunogen	Synthetic peptide within Human TPR (Cysteine residue). The exact sequence is proprietary. Database link: <a href="#">P12270</a>
Positive control	HeLa + Camptothecin, HeLa, HeLa + Staurosporine, HeLa, 293T and Jurkat whole cell lysate ( <a href="#">ab7899</a> ), HeLa cells
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

#### 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: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR8982
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab170940 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

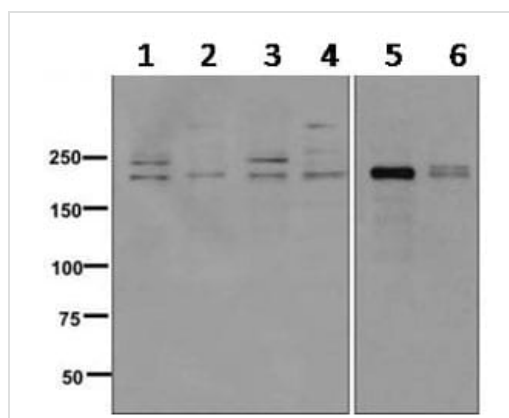
Application	Abreviews	Notes
ICC/IF		1/100 - 1/250.
WB		1/1000 - 1/5000. Predicted molecular weight: 267 kDa.

**Application notes** Is unsuitable for Flow Cyt, IHC-P or IP.

## Target

<b>Function</b>	Component of the cytoplasmic fibrils of the nuclear pore complex implicated in nuclear protein import. Its N-terminus is involved in activation of oncogenic kinases. Plays a role in the mitotic spindle checkpoint.
<b>Tissue specificity</b>	Highest in testis, lung, thymus, spleen and brain, lower levels in heart, liver and kidney.
<b>Involvement in disease</b>	Defects in TPR 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=Chromosomal aberrations involving TPR are found in thyroid papillary carcinomas. Intrachromosomal rearrangement that links the 5'-end of the TPR gene to the protein kinase domain of NTRK1 forms the fusion protein TRK-T1. TRK-T1 is a 55 kDa protein reacting with antibodies against the carboxy terminus of the NTRK1 protein. Note=Involved in tumorigenic rearrangements with the MET or RAF genes.
<b>Post-translational modifications</b>	Phosphorylated upon DNA damage, probably by ATM or ATR.
<b>Cellular localization</b>	Nucleus > nuclear pore complex. Nucleus membrane. Chromosome > centromere > kinetochore. The assembly of the NPC is a stepwise process in which Trp-containing peripheral structures assemble after other components, including p62. Detected at kinetochores during prometaphase.

## Images



Western blot - Anti-TPR antibody [EPR8982]  
(ab170940)

**All lanes** : Anti-TPR antibody [EPR8982] (ab170940) at 1/1000 dilution

**Lane 1** : HeLa + Camptothecin cell lysates

**Lanes 2 & 4** : HeLa cell lysates

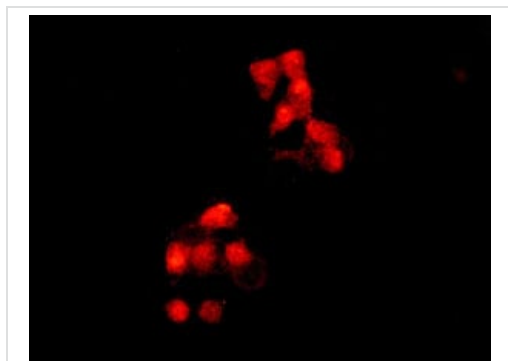
**Lane 3** : HeLa + Staurosporine cell lysates

**Lane 5** : 293T cell lysates

**Lane 6** : Jurkat cell lysates

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 267 kDa



Immunocytochemistry/ Immunofluorescence - Anti-TPR antibody [EPR8982] (ab170940)

Immunofluorescence analysis of HeLa cells labeling TPR with ab170940 at 1/100 dilution.

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-TPR antibody [EPR8982] (ab170940)

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

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