

TPR Rabbit pAb

CatalogNo: YT6915

| Key Features

Host Species

- Rabbit

Reactivity

- Human,Rat,Mouse,

Applications

- WB

MW

- 260kD (Calculated)

Isotype

- IgG

| Recommended Dilution Ratios

WB 1:500-2000

| Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality Polyclonal

| Immunogen Information

Immunogen Synthesized peptide derived from human TPR AA range: 2191-2241

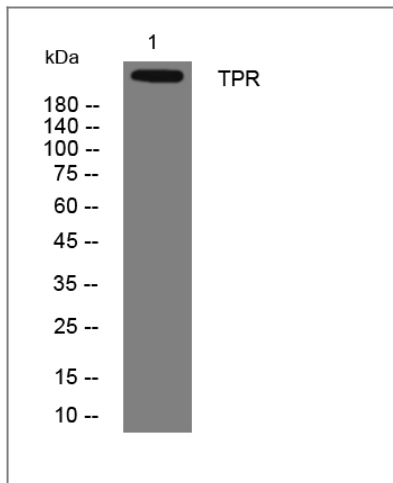
Specificity This antibody detects endogenous levels of TPR at Human

| Target Information

Gene name TPR

Protein Name	TPR		
	Organism	Gene ID	UniProt ID
	Human	7175;	P12270;
Cellular Localization	<p>Nucleus . Nucleus membrane ; Peripheral membrane protein ; Nucleoplasmic side . Nucleus envelope . Nucleus, nuclear pore complex . Cytoplasm . Cytoplasm, cytoskeleton, spindle . Chromosome, centromere, kinetochore . Nucleus membrane ; Peripheral membrane protein ; Cytoplasmic side . Detected as discrete intranuclear foci with IFI204 (By similarity). In interphase, localizes to the nucleoplasmic side of the nuclear pore complex (NPC) core structure, forming a fibrous structure called the nuclear basket. Detected exclusively to the cytoplasmic margin of NPC (PubMed:7798308). Docking to the inner nucleoplasmic side of the NPC is mediated through binding to nucleoporins. Anchored by NUP153 to the NPC. The assembly of the NPC is a stepwise process in which Trp-containing peripheral structures assemble after other components, including p62. Detected as filaments that emanate from the nuclear basket of the NPC and extend to the nucleolus to delineate a chromatin-free network extending from the nuclear envelope to the perinucleolar region. Detected in diffuse and discrete spheroidal intranuclear foci. Nucleocytoplasmic shuttling protein imported into the nucleus in a XPO1/CRM1- and Importin alpha/Importin beta receptor-dependent manner. Remains localized to the nuclear membrane after poliovirus (PV) infection. During mitosis, remains associated with the nuclear envelope until prometaphase. Associated with the mitotic spindle from late prometaphase until anaphase. Reorganized during mitosis in a viscous and dynamic nuclear-derived spindle matrix that embeds the microtubule spindle apparatus from pole to pole in a microtubule-independent manner. Recruited to the reforming nuclear envelope during telophase and cytokinesis. Detected at kinetochores during prometaphase (PubMed:18981471). Colocalizes with MAD2L1 in the spindle matrix but not at kinetochore (PubMed:19273613). Colocalizes with dynein, dynactin, tubulin at kinetochore during the metaphase-anaphase transition. Colocalizes with DYNLL1 at the mitotic spindle. .</p>		
Tissue specificity	Expressed in esophagus, ovary, liver, skin, smooth muscles, cerebrum and fetal cerebellum (at protein level). Highest in testis, lung, thymus, spleen and brain, lower levels in heart, liver and kidney.		
Function	<p>Disease:Chromosomal aberrations involving TPR are a cause of thyroid papillary carcinoma (PACT) [MIM:188550]. 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.,Disease:Involved in tumorigenic rearrangements with the MET or RAF genes.,Function: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.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,subcellular location: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.,subunit:Interacts with MAD1L1 and MAD2L1.,tissue specificity:Highest in testis, lung, thymus, spleen and brain, lower levels in heart, liver and kidney.,</p>		

Validation Data



Western blot analysis of lysates from SW480 cells, primary antibody was diluted at 1:1000, 4° over night

Contact information

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TPR Rabbit pAb

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