



TPR mouse mAb

Catalog No	YP-mAb-11550
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	TPR
Immunogen	Synthesized peptide derived from human TPR AA range: 2191-2241
Specificity	This antibody detects endogenous levels of TPR at Human
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	TPR
Observed Band	
Calculated Molecular Weight	260kD
Cell Pathway	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 a
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

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

Background

This gene encodes a large coiled-coil protein that forms intranuclear filaments attached to the inner surface of nuclear pore complexes (NPCs). The protein directly interacts with several components of the NPC. It is required for the nuclear export of mRNAs and some proteins. Oncogenic fusions of the 5' end of this gene with several different kinase genes occur in some neoplasias. [provided by RefSeq, Jul 2008],

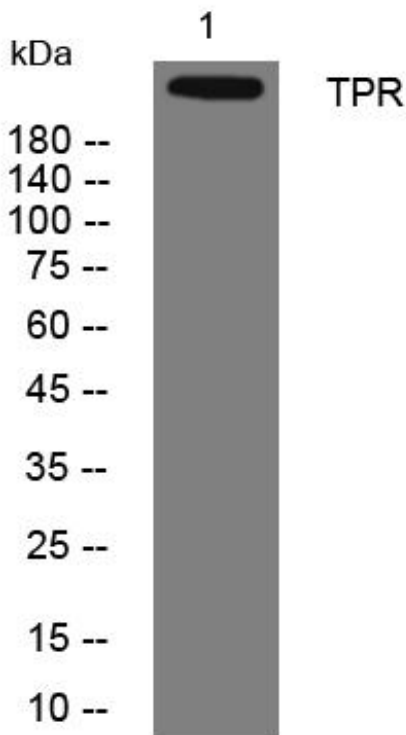
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using TPR mouse mAb