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Product datasheet for TA329011

Pex5l Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide(C)EKWDDVKFHGDRTSK, corresponding to amino acid residues 151-165 of rat TRIP8b.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN3.
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	peroxisomal biogenesis factor 5-like
Database Link:	NP_775175 Entrez Gene 58869 MouseEntrez Gene 286937 Rat Q925N3

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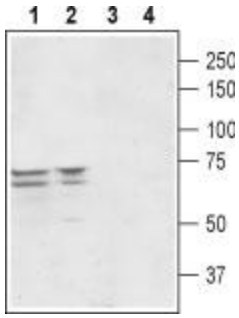
Background: PEX5R (also called TRIP8b, tetratricopetide repeat-containing Rab8b-interacting protein) is a cytoplasmic protein expressed as a family of alternatively spliced isoforms. PEX5R /TRIP8b isoforms contain a large constant domain preceded by a variable region. The C-terminal half of TRIP8b comprises a tetratricopeptide repeat (TPR) protein binding domain. Analysis of the Pex5p-like protein revealed the presence of a tetratricopeptide repeat (TPR) domain in its C-terminal half consisting of seven TPR motifs. Pex5R is almost exclusively expressed in brain. Recent studies provide strong evidence that PEX5R interacts with the carboxyl-terminal region of Hyperpolarization-activated cyclic nucleotide-gated (HCN) channels and regulates their cell-surface expression level and cyclic nucleotide dependence. HCN channels are key modulators of neuronal activity by providing the depolarizing cation current involved in rhythmogenesis, dendritic integration, and synaptic transmission. In contrast, Gosh et al. have shown that human PEX5R can bind to peroxisomal targeting signal-1 (PTS1) ligands. Furthermore it was shown that enzyme alanine–glyoxylate aminotransferase (AGT) is recognized by PEX5R in the cytoplasm, which allows its subsequent translocation into the peroxisome. TRIP8b may play a role in both normal neuronal function and in aberrant neuronal excitability associated with neurological diseases.

Synonyms: PEX5R; Pex5Rp; PXR2; PXR2B

Product images:



Western blot analysis of rat brain (lanes 1 and 3) and mouse brain (lanes 2 and 4) lysates: 1-2. Anti-TRIP8b antibody, (1:400). 3-4. Anti-TRIP8b antibody, preincubated with the control peptide antigen.