

Datasheet for ABIN351091

anti-Tyrosinase-Related Protein 1 antibody (4th Cytoplasmic Loop)



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Overview

Quantity:	500 µg
Target:	Tyrosinase-Related Protein 1 (TYRP1)
Binding Specificity:	4th Cytoplasmic Loop
Reactivity:	Drosophila melanogaster
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Tyrosinase-Related Protein 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Rabbit antibody to drosophila TRP
Immunogen:	A synthetic peptide from 4th cytoplasmic loop of drosophila TRP (Transient receptor potential protein) conjugated to an immunogenic carrier protein was used as the immunogen.
Isotype:	IgG
Specificity:	Specific for TRP.
Cross-Reactivity:	Drosophila melanogaster
Cross-Reactivity (Details):	Other species not yet tested.
Purification:	IgG

Target Details

Target:	Tyrosinase-Related Protein 1 (TYRP1)
Alternative Name:	TRP (TYRP1 Products)
Background:	FUNCTION: A light-sensitive calcium channel that is required for inositide-mediated Ca(2+) entry in the retina during phospholipase C (PLC)-mediated phototransduction. Ca(2+) influx may then feed back and inhibit PLC thereby facilitating phosphatidylinositol 4 5 biphosphate (PIP2) recycling. Trp and trpl act together in the light response though it is unclear whether as heteromultimers or as distinct units and are activated by fatty acids and metabolic stress. Also required for olfactory adaptation and may be involved in olfactory system development. SUBUNIT: The C-terminus interacts with a PDZ domain of inaD to form the core of the inaD signaling complex. Other members of the complex include norpA (PLC) inaC (PKC) and possibly trpl ninaC FKBP59 calmodulin and rhodopsin. Forms homomultimers and heteromultimers with trpl. Interaction with trpl is mediated in part by the N-terminal region and the transmembrane domains. Also interacts though to a lower extent with trp-gamma. SUBCELLULAR LOCATION: Membrane, Multi-pass membrane protein. Note: Localized on plasma membrane loops found at the base of the rhabdomere in close proximity to the calcium stores. TISSUE SPECIFICITY: Expressed predominantly in the rhabdomeres of photoreceptor cells. Expressed in the third antennal segment and in the olfactory segment at approximately 70 hours after puparium formation during antennal development.
UniProt:	P19334

Application Details

Application Notes:	IHC WB. A concentration of 10-50, microg/ml is recommended. The optimal concentration should be determined by the end user.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute in 500 µl of sterile water. Centrifuge to remove any insoluble material.
Handling Advice:	Avoid freeze and thaw cycles.
Storage:	4 °C, -20 °C
Storage Comment:	Maintain the lyophilised/reconstituted antibodies frozen at -20°C for long term storage and refrigerated at 2-8°C for a shorter term. When reconstituting glycerol (1:1) may be added for an

Handling

additional stability. Avoid freeze and thaw cycles.

Expiry Date: 12 months