

TSPAN10 Rabbit pAb

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Catalog # AP59250

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9H1Z9
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	36644
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TSPAN10
Epitope Specificity	181-280/355
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Multi-pass membrane protein (Potential).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The tetraspanins are integral membrane proteins expressed on cell surface and granular membranes of hematopoietic cells and are components of multi-molecular complexes with specific integrins. Oculoplanin, also known as tetraspanin 10 (TSPAN10) or OCSP, is a 355 amino acid multi-pass membrane protein belonging to the tetraspanin (TM4SF) family. Oculoplanin is expressed in certain regions of the eye such as retinal pigment epithelium, ciliary body and iris, but is not found in the lens. The gene encoding Oculoplanin maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome. Like p53, BRCA1 is directly involved in DNA repair, and is linked to predisposition of cancers of the ovary, colon, prostate gland and fallopian tubes.

Additional Information

Gene ID	83882
Other Names	Tetraspanin-10, Tspan-10, Oculoplanin, TSPAN10 (HGNC:29942), OCSP
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	TSPAN10 (HGNC:29942)
Synonyms	OCSF
Function	Part of TspanC8 subgroup, composed of 6 members that interact with the transmembrane metalloprotease ADAM10. This interaction is required for ADAM10 exit from the endoplasmic reticulum and for enzymatic maturation and trafficking to the cell surface as well as substrate specificity. Different TspanC8/ADAM10 complexes have distinct substrates.
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in the eye, including iris, ciliary body, retinal pigment epithelium, but not lens (protein level)

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