

MFSD6 Rabbit pAb

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Catalog # AP57301

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q6ZSS7
Predicted	Rat, Pig, Dog, Human, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	88088
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MFSD6
Epitope Specificity	621-720/791
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
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	MFSD6L is a 586 amino acid multi-pass membrane protein of the MFSD6 family and major facilitator superfamily. The gene encoding MFSD6L maps to human chromosome 17, which contains about 81 million bases and 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell death. 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, though it is specifically recognized as a genetic determinant of early onset breast cancer and predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes. Chromosome 17 is also linked to neurofibromatosis, a condition characterized by neural and epidermal lesions, and dysregulated Schwann cell growth.

Additional Information

Gene ID	54842
Other Names	Major facilitator superfamily domain-containing protein 6, Macrophage MHC class I receptor 2 homolog, MFSD6, MMR2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
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	MFSD6
Synonyms	MMR2
Function	(Microbial infection) Acts as a receptor for respiratory enterovirus D68 (PubMed: 39798568 , PubMed: 40132641). Mechanistically, binds to viral particles and is required for viral cell entry while initial attachment to cells is mainly mediated by interactions with sialic acid (PubMed: 40132641).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Widely expressed. Expression levels in peripheral blood mononuclear cells are highly variable between individuals, including no expression at all.

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