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C19orf28 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP59342

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q6NUT3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52075
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MFSD12/C19orf28
Epitope Specificity	351-450/480
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	lysosomal membrane
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	C19orf28, also known as PP3501, is a multi-pass membrane protein that belongs to the major facilitator superfamily. The gene encoding C19orf28 localizes to chromosome 19 and, due to alternative splicing events, C19orf28 exists as two isoforms. Consisting of around 63 million bases with over 1,400 genes, chromosome 19 makes up over 2% of human genomic DNA. Chromosome 19 includes a diversity of interesting genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin superfamily members including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family, and Fc receptors. Key genes for eye color and hair color also map to chromosome 19. Peutz-Jeghers syndrome, spinocerebellar ataxia type 6, the stroke disorder CADASIL, hypercholesterolemia and insulin-dependent diabetes have been linked to chromosome 19. Translocations with chromosome 19 and chromosome 14 can be seen in some lymphoproliferative disorders and typically involve the proto-oncogene BCL3. The C19orf28 gene product has been provisionally designated C19orf28 pending further characterization.

Additional Information

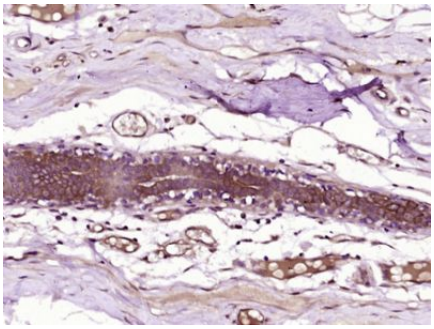
Gene ID	126321
Other Names	Major facilitator superfamily domain-containing protein 12, MFSD12 {ECO:0000303|PubMed:29025994, ECO:0000312|HGNC:HGNC:28299}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-

	10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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	MFSD12 {ECO:0000303|PubMed:29025994, ECO:0000312|HGNC:HGNC:28299}
Function	Transporter that mediates the import of cysteine into melanosomes, thereby regulating skin pigmentation (PubMed:33208952, PubMed:37751742). In melanosomes, cysteine import is required both for normal levels of cystine, the oxidized dimer of cysteine, and provide cysteine for the production of the cysteinyldopas used in pheomelanin synthesis, thereby regulating skin pigmentation (PubMed:33208952). Also catalyzes import of cysteine into lysosomes in non-pigmented cells, regulating lysosomal cystine and cysteine storage, which is essnetial for redox homeostasis (PubMed:33208952, PubMed:37751742).
Cellular Location	Melanosome membrane; Multi-pass membrane protein. Lysosome membrane; Multi-pass membrane protein
Tissue Location	Widely expressed, with high expression in primary melanocytes.

Images



Paraformaldehyde-fixed, paraffin embedded (Human breast carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (C19orf28) Polyclonal Antibody, Unconjugated (AP59342) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.