

DOPEY2 Rabbit pAb

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Catalog # AP55563

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9Y3R5
Reactivity	Rat
Predicted	Pig, Dog, Human, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	258230
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DOPEY2
Epitope Specificity	51-150/2298
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
DISEASE	Abundantly expressed in developing central nervous system, with highest levels in cerebellum and lowest in telencephalon.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Dopey-2 is a 2,298 amino acid protein that is ubiquitously expressed with high levels found in the developing central nervous system where it is thought to play a role in protein trafficking between early endosomes and the late Golgi. Multiple isoforms of Dopey-2 exist due to alternative splicing events. The gene encoding Dopey-2 maps to human chromosome 21 and may be involved in the pathogenesis of Down syndrome. The smallest of the human chromosomes, chromosome 21 comprises about 1.5% of the human genome and contains nearly 300 genes and 47 million base pairs. Down syndrome, also known as trisomy 21, is the disease most commonly associated with chromosome 21. Alzheimer's disease, Jervell and Lange-Nielsen syndrome and amyotrophic lateral sclerosis are also associated with chromosome 21. Translocations are found to occur between chromosome 21 and 8, and chromosome 21 and 12, in certain leukemias.

Additional Information

Gene ID	9980
Other Names	Protein DOP1B, DOP1B (HGNC:1291)
Dilution	IHC-P=1:100-500,IHC-F=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.

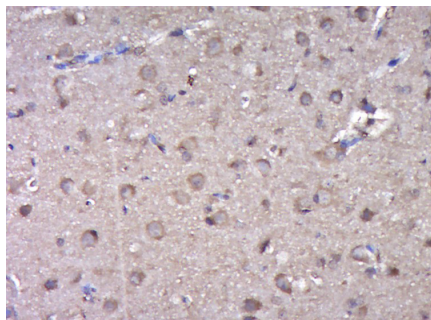
Protein Information

Name	DOP1B (HGNC:1291)
Function	May play a role in regulating membrane trafficking of cargo proteins. Together with ATP9A and MON2, regulates SNX3 retromer- mediated endosomal sorting of WLS away from lysosomal degradation.
Cellular Location	Early endosome membrane. Golgi apparatus membrane {ECO:0000250 UniProtKB:Q03921}; Peripheral membrane protein {ECO:0000250 UniProtKB:Q03921}
Tissue Location	Ubiquitously expressed. Overexpressed in lymphoblasts from Down syndrome patients.

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Images



Paraformaldehyde-fixed, paraffin embedded (Rat brain); 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 (DOPEY2) Polyclonal Antibody, Unconjugated (AP55563) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.