

DOCK10 Rabbit pAb

DOCK10 Rabbit pAb

Catalog # AP55560

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q96BY6
Predicted	Rat, Pig, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	249531
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DOCK10
Epitope Specificity	4-100/186
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	DOCK 10 is a 2,183 amino acid protein that belongs to the DOCK family of cytokinesis-regulating proteins and contains one PH domain, one DHR-1 domain and one DHR-2 domain. Expressed at lower levels in lung and brain tissue, DOCK 10 functions as a potential GEF (guanine nucleotide exchange factor) that is able to activate target GTPases by exchanging bound GDP for free GTP. Multiple isoforms of DOCK 10 exist due to alternative splicing events. The gene encoding DOCK 10 maps to human chromosome 2, which houses over 1,400 genes and comprises nearly 8% of the human genome. Harlequin ichthyosis, a rare and morbid skin deformity, is associated with mutations in the ABCA12 gene, while the lipid metabolic disorder sitosterolemia is associated with defects in the ABCG5 and ABCG8 genes. Additionally, an extremely rare recessive genetic disorder, Alström syndrome, is caused by mutations in the ALMS1 gene, which maps to chromosome 2.

Additional Information

Gene ID	55619
Other Names	Dedicator of cytokinesis protein 10, Zizimin-3, DOCK10 (HGNC:23479), KIAA0694, ZIZ3
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	DOCK10 (HGNC:23479)
Synonyms	KIAA0694, ZIZ3
Function	Guanine nucleotide-exchange factor (GEF) that activates CDC42 and RAC1 by exchanging bound GDP for free GTP. Essential for dendritic spine morphogenesis in Purkinje cells and in hippocampal neurons, via a CDC42-mediated pathway. Sustains B-cell lymphopoiesis in secondary lymphoid tissues and regulates FCER2/CD23 expression.
Cellular Location	Nucleus. Cytoplasm. Cell projection, dendritic spine {ECO:0000250 UniProtKB:Q8BZN6}
Tissue Location	Expressed at low level in brain and lung. Isoform 1 is enriched in normal T-cells, isoform 3 is enriched in normal B-cells and chronic lymphocytic leukemia (CLL) B-cells

Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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