Product Name: Puratrophin 1 Rabbit Polyclonal Antibody
Catalog #: APRab16698

Summary

Production Name	Puratrophin 1 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA
Reactivity	Human,Monkey

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	PLEKHG4
Alternative Names	PLEKHG4; PRTPHN1; Puratrophin-1; Pleckstrin homology domain-containing family G member 4; PH domain-containing family G member 4; Purkinje cell atrophy-associated protein 1
Gene ID	25894.0
SwissProt ID	Q58EX7.The antiserum was produced against synthesized peptide derived from human PLEKHG4. AA range:654-703

Application

Dilution Ratio	WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:20000, IF-P/IF-F/ICC/IF 1:50-200
Molecular Weight	135kDa

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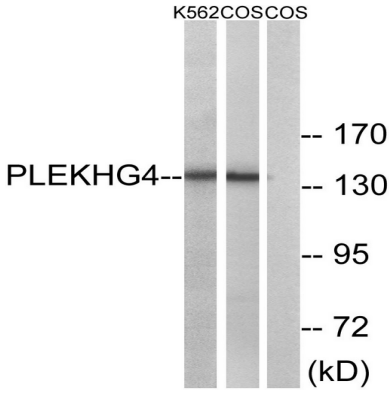
Background

The protein encoded by this gene can function as a guanine nucleotide exchange factor (GEF) and may play a role in intracellular signaling and cytoskeleton dynamics at the Golgi apparatus. Polymorphisms in the region of this gene have been found to be associated with spinocerebellar ataxia in some study populations. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015],disease:Defects in PLEKHG4 are the cause of spinocerebellar ataxia 16q22-linked (SCA16q22) [MIM:117210]; alo known as pure spinocerebellar ataxia Japanese type or SCA4 pure Japanese type. Spinocerebellar ataxia is a clinically and genetically heterogeneous group of cerebellar disorders. Patients show progressive incoordination of gait and often poor coordination of hands, speech and eye movements, due to degeneration of the cerebellum with variable involvement of the brainstem and spinal cord. SCA16q22 belongs to the autosomal dominant cerebellar ataxias type III (ADCA III) which are characterized by pure cerebellar ataxia without additional signs.,function:Possible role in intracellular signaling and cytoskeleton dynamics at the Golgi.,similarity:Contains 1 DH (DBL-homology) domain.,similarity:Contains 1 PH domain.,tissue specificity:Expressed in kidney, Leydig cells in the testis, epithelial cells in the prostate gland and Langerhans islet in the pancreas. Isoform 1 and isoform 3 are strongly expressed in Purkinje cells and to a lower extent in other neurons (at protein level). Widely expressed at low levels. More strongly expressed in testis and pancreas.,

Research Area

Image Data



Western blot analysis of lysates from COS7 and K562 cells, using PLEKHG4 Antibody. The lane on the right is blocked with the synthesized peptide.

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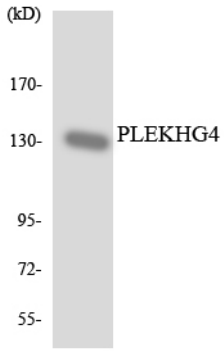

Western blot analysis of the lysates from HUVECcells using PLEKHG4 antibody.

Note

For research use only.