

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

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human,Monkey
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
<b>Molecular Weight</b>	135kDa

**Antigen Information**

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

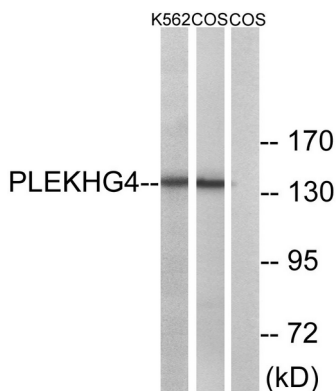
## Background

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]; also 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.,

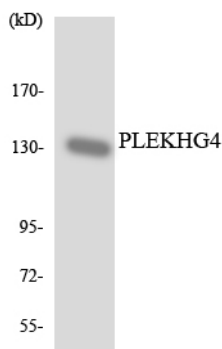
## Research Area

Neuroscience; Neurology process; Neurodegenerative disease

## 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.



Western blot analysis of the lysates from HUVEC cells using PLEKHG4 antibody.

