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PKDCC / SGK493 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS13804

Specification

PKDCC / SGK493 Antibody (Internal) - Product Information

Application	**WB, IHC-P, IF, E**
Primary Accession	Q504Y2
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**54kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A** **IF~~1:50~200** **E~~N/A**

PKDCC / SGK493 Antibody (Internal) - Additional Information

Gene ID 91461

Other Names
Extracellular tyrosine-protein kinase PKDCC, 2.7.10.2, Protein kinase domain-containing protein, cytoplasmic {ECO:0000312|HGNC:HGNC:25123}, Protein kinase-like protein SgK493, Sugen kinase 493, Vertebrate lonesome kinase, PKDCC (HGNC:25123)

Target/Specificity
Human PKDCC

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions
PKDCC / SGK493 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

PKDCC / SGK493 Antibody (Internal) - Protein Information

Name PKDCC (HGNC:25123)

Function
Secreted tyrosine-protein kinase that mediates phosphorylation of extracellular proteins and endogenous proteins in the secretory pathway, which is essential for patterning at organogenesis stages. Mediates phosphorylation of MMP1, MMP13, MMP14, MMP19 and ERP29 (PubMed:25171405). Probably plays a role in platelets: rapidly and quantitatively secreted from platelets in response to

stimulation of platelet degranulation (PubMed:25171405). May also have serine/threonine protein kinase activity. Required for longitudinal bone growth through regulation of chondrocyte differentiation. May be indirectly involved in protein transport from the Golgi apparatus to the plasma membrane (By similarity).

Cellular Location
Secreted. Golgi apparatus {ECO:0000250|UniProtKB:Q5RJI4}

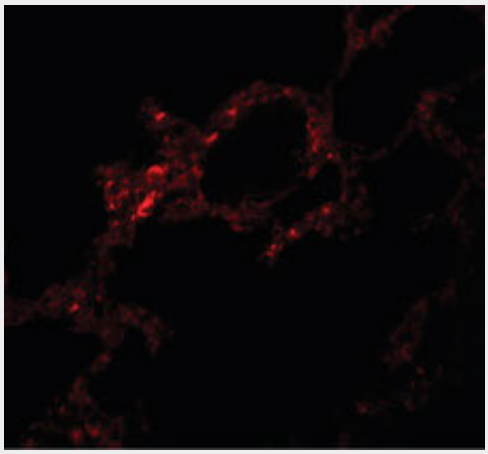
Tissue Location
Highly expressed in platelets.

PKDCC / SGK493 Antibody (Internal) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PKDCC / SGK493 Antibody (Internal) - Images



Immunofluorescence of VLK in rat lung tissue with VLK antibody at 5 ug/ml.

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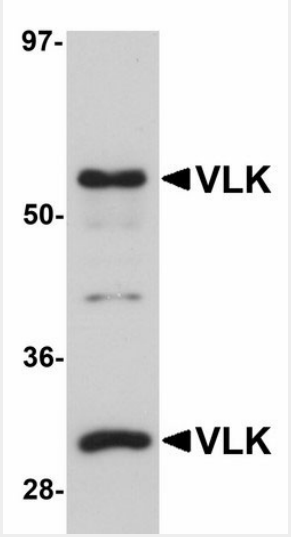
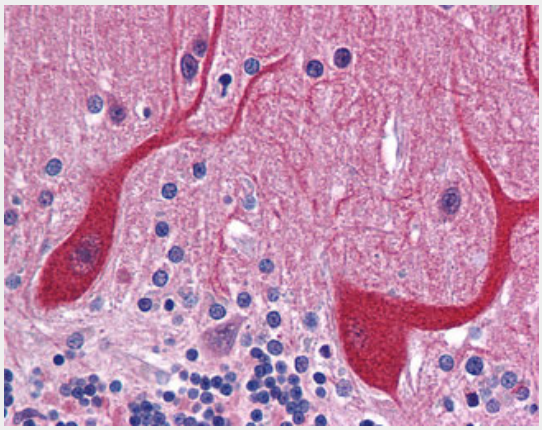


Western blot of VLK in human lung tissue lysate with VLK antibody at 1 ug/ml.



Anti-PKDCC antibody IHC of human brain, cerebellum.

PKDCC / SGK493 Antibody (Internal) - Background

Secreted tyrosine-protein kinase that mediates phosphorylation of extracellular proteins and endogenous proteins in the secretory pathway, which is essential for patterning at organogenesis stages. Mediates phosphorylation of MMP1, MMP13, MMP14, MMP19 and ERP29 (PubMed:25171405). Probably plays a role in platelets: rapidly and quantitatively secreted from platelets in response to stimulation of platelet degranulation (PubMed:25171405). May also have serine/threonine protein kinase activity. Required for longitudinal bone growth through regulation of chondrocyte differentiation. May be indirectly involved in protein transport from the Golgi apparatus to the plasma membrane (By similarity).

PKDCC / SGK493 Antibody (Internal) - References

Hillier L.W.,et al.Nature 434:724-731(2005).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Manning G.,et al.Science 298:1912-1934(2002).
Bordoli M.R.,et al.Cell 158:1033-1044(2014).