10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SAMD9 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP59097

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q5K651
Reactivity	Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	184281
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SAMD9
Epitope Specificity	1501-1589/1589
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm
SIMILARITY	Contains 1 SAM (sterile alpha motif) domain.
SUBUNIT	Interacts with RGL2.
DISEASE	Defects in SAMD9 are the cause of tumoral calcinosis, normophosphatemic, familial (NFTC) [MIM:610455]. An uncommon disorder characterized by progressive deposition of calcified masses in cutaneous and subcutaneous tissues. Serum phosphate levels are normal. Clinical features include painful calcified ulcerative lesions, massive calcium deposition in the mid- and lower dermis, severe skin and bone infections, erythematous papular skin eruption in infancy, conjunctivitis, and gingivitis. NFTC shows a striking resemblance to acquired dystrophic calcinosis, in which tissue calcification occurs as a consequence of tissue injury/inflammation.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Defects in SAMD9 are the cause of normophosphatemic familial tumoral calcinosis (NFTC). NFTC is an uncommon life-threatening disorder characterized by massive periarticular, and seldom visceral, deposition of calcified tumors.

Additional Information

Gene ID	54809
Other Names	Sterile alpha motif domain-containing protein 9, SAM domain-containing protein 9, SAMD9, C7orf5, DRIF1, KIAA2004, OEF1
Target/Specificity	Widely expressed. Very low levels in skeletal muscle. Not detected in fetal brain. Down-regulated in aggressive fibromatosis, as well as in breast and colon cancers.

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:50-200,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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	SAMD9
Synonyms	C7orf5, DRIF1, KIAA2004, OEF1
Function	Double-stranded nucleic acid binding that acts as an antiviral factor by playing an essential role in the formation of cytoplasmic antiviral granules (PubMed:25428864, PubMed:28157624). May play a role in the inflammatory response to tissue injury and the control of extra-osseous calcification, acting as a downstream target of TNF-alpha signaling. Involved in the regulation of EGR1, in coordination with RGL2. May be involved in endosome fusion.
Cellular Location	Cytoplasm
Tissue Location	Widely expressed. Very low levels are detected in skeletal muscle. Not detected in brain. Down-regulated in aggressive fibromatosis, as well as in breast and colon cancers. Up-regulated in fibroblasts from patients with normophosphatemic tumoral calcinosis (NFTC).