

Calcyphosine 1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54755**Specification****Calcyphosine 1 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q13938
Reactivity	Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	21 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Calcyphosine 1
Epitope Specificity	101-189/189
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	Cell membrane
SIMILARITY	Contains 3 EF-hand domains.
SUBUNIT	Monomer. Does not form oligomers in the presence of calcium.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

CAPS2 is a 557 amino acid calcium-binding protein that is abundantly expressed, with highest expression found in placenta, testis, colon, lung and brain. CAPS2 contains three EF-hand domains and exists as three alternatively spliced isoforms. Suggested to play a role in large dense-core vesicle (LDCV) exocytosis, CAPS2 is encoded by a gene that maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

Calcyphosine 1 Polyclonal Antibody - Additional Information**Gene ID 828****Other Names**

Calcyphosin, Calcyphosine, CAPS {ECO:0000303|PubMed:28397838, ECO:0000312|HGNC:HGNC:1487}

Target/Specificity

Abundantly expressed in many tissues. Expressed in brain, colon, heart, kidney, liver, lung, liver,

pancreas, placenta, skeletal muscle, testis and thymus. Highest expression in colon, testis, lung, placenta and brain.

Dilution

WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

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.

Calcyphosine 1 Polyclonal Antibody - Protein Information

Name CAPS {ECO:0000303|PubMed:28397838, ECO:0000312|HGNC:HGNC:1487}

Function

Calcium-binding protein. May play a role in cellular signaling events (Potential).

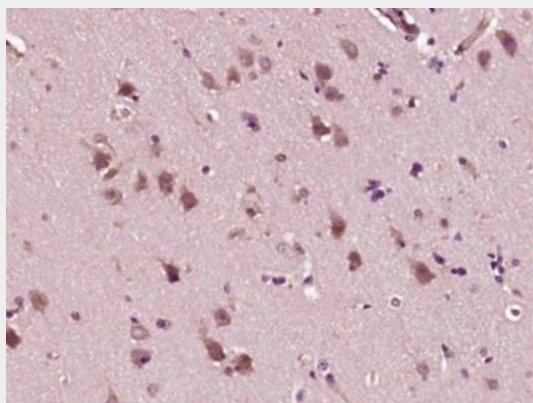
Cellular Location

Cytoplasm.

Calcyphosine 1 Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Calcyphosine 1 Polyclonal Antibody - Images

Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Calcyphosine 1) Polyclonal Antibody, Unconjugated (bs-12161R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.