

Goat Anti-ELKS / RAB6IP2 Antibody

Peptide-affinity purified goat antibody Catalog # AF1362a

Specification

Goat Anti-ELKS / RAB6IP2 Antibody - Product Information

Application WB
Primary Accession Q8IUD2

Other Accession <u>NP_829884</u>, <u>23085</u>, <u>111173 (mouse)</u>

Reactivity Human

Predicted Mouse, Rat, Dog, Cow

Host Goat
Clonality Polyclonal
Concentration 100ug/200ul

Isotype IgG Calculated MW 128086

Goat Anti-ELKS / RAB6IP2 Antibody - Additional Information

Gene ID 23085

Other Names

ELKS/Rab6-interacting/CAST family member 1, ERC-1, Rab6-interacting protein 2, ERC1, ELKS, KIAA1081, RAB6IP2

Format

0.5~mg lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-ELKS / RAB6IP2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-ELKS / RAB6IP2 Antibody - Protein Information

Name ERC1

Synonyms ELKS, KIAA1081, RAB6IP2

Function

Regulatory subunit of the IKK complex. Probably recruits IkappaBalpha/NFKBIA to the complex. May be involved in the organization of the cytomatrix at the nerve terminals active zone (CAZ) which regulates neurotransmitter release. May be involved in vesicle trafficking at the CAZ. May



be involved in Rab-6 regulated endosomes to Golgi transport.

Cellular Location

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm {ECO:0000250|UniProtKB:Q811U3}. Membrane; Peripheral membrane protein. Golgi apparatus membrane; Peripheral membrane protein. Presynaptic cell membrane {ECO:0000250|UniProtKB:Q811U3}. Note=Recruited on Golgi membranes by RAB6A in a GTP-dependent manner (By similarity).

Tissue Location

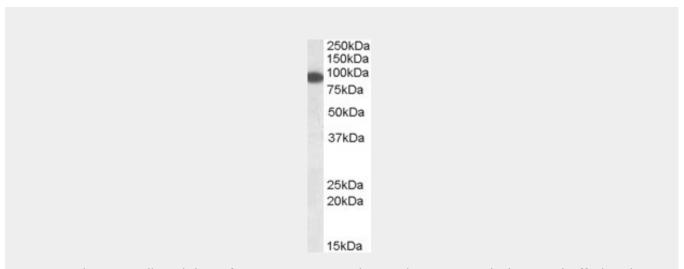
Widely expressed. Isoform 2 and isoform 4 are abundantly expressed in brain. Isoform 1 and isoform 3 are predominantly expressed in testis and thyroid, and isoform 1 predominates in other tissues tested.

Goat Anti-ELKS / RAB6IP2 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Goat Anti-ELKS / RAB6IP2 Antibody - Images



AF1362a (0.1 μ g/ml) staining of Human Pancreas lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-ELKS / RAB6IP2 Antibody - Background

The protein encoded by this gene is a member of a family of RIM-binding proteins. RIMs are active zone proteins that regulate neurotransmitter release. This gene has been found fused to the receptor-type tyrosine kinase gene RET by gene rearrangement due to the translocation t(10;12)(q11;p13). Multiple transcript variants encoding different isoforms have been found for this gene.

Goat Anti-ELKS / RAB6IP2 Antibody - References





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Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.

Human variation in alcohol response is influenced by variation in neuronal signaling genes. Joslyn G, et al. Alcohol Clin Exp Res, 2010 May. PMID 20201926.

A PDGFRB-positive acute myeloid malignancy with a new t(5;12)(q33;p13.3) involving the ERC1 gene. Gorello P, et al. Leukemia, 2008 Jan. PMID 17690697.

Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931.

A probability-based approach for high-throughput protein phosphorylation analysis and site localization. Beausoleil SA, et al. Nat Biotechnol, 2006 Oct. PMID 16964243.