

IQSEC3 Rabbit pAb

Catalog # AP97463

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9UPP2
Other Accession	Q9UPP2
Reactivity	Rat
Predicted	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	127621
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human IQSEC3
Epitope Specificity	651-750/1185
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SIMILARITY	Belongs to the BRAG family. Contains 1 IQ domain. Contains 1 PH domain. Contains 1 SEC7 domain.
SUBUNIT	Interacts with DLG1 and DLG4. {ECO:0000250}.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	IQSEC3 (IQ motif and SEC7 domain-containing protein 3), also known as KIAA1110, is a 1,182 amino acid protein that belongs to the BRAG family. Localizing to the cytoplasm, IQSEC3 is expressed predominantly in adult brain, where it is observed predominantly in the cerebral cortex and olfactory bulb, with no expression found in the fetal brain. IQSEC3 contains an IQ domain, a PH domain and a SEC7 domain, and interacts with SAP 97 and PSD-95. Acting as a guanine nucleotide exchange factor (GEF) for ARF1, IQSEC3 is encoded by a gene that maps to human chromosome 12p13.33 and mouse chromosome 6 F1. Mutations to the gene encoding IQSEC2 have been linked to non-syndromic X-linked intellectual disability, while both IQSEC1 and IQSEC3 may be candidates for autosomal ID screening. IQSEC3 exists as two alternatively spliced isoforms.

Additional Information

Gene ID	440073
Other Names	IQEC3_HUMAN; IQSEC3; KIAA1110; IQ motif and Sec7 domain ArfGEF 3; IQ motif and Sec7 domain 3
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	IQSEC3
Synonyms	KIAA1110
Function	Acts as a guanine nucleotide exchange factor (GEF) for ARF1.
Cellular Location	Cytoplasm. Postsynaptic density {ECO:0000250 UniProtKB:Q3TES0}
Tissue Location	Expressed specifically in the adult brain, predominantly in the cerebral cortex and the olfactory bulb, but not in the fetal brain. Expressed only in mature neurons, but not in undifferentiated neural stem precursor cells (NSPCs), nor in glioma cells.

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