SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-IQSEC3/Biotin Conjugated antibody

Catalog Number: SL20333R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-IQSEC3/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human IQSEC3
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse)
Background:	background: 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. **Function:** Acts as a guanine nucleotide exchange factor (GEF) for ARF1.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Subunit: Interacts with DLG1 and DLG4. {ECO:0000250}. **Subcellular Location:** Cytoplasm. **Tissue Specificity:** 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. **Similarity:** Belongs to the BRAG family. Contains 1 IQ domain. Contains 1 PH domain. Contains 1 SEC7 domain. **Database links:** **Entrez Gene:** 440073 Human **SwissProt:** Q9UPP2 Human **Unigene:** 536319 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.