

IQSEC1 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS17128**Specification**

IQSEC1 Antibody (N-Terminus) - Product Information

Application	IHC
Primary Accession	O6DN90
Other Accession	9922
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	108314

IQSEC1 Antibody (N-Terminus) - Additional Information

Gene ID [9922](#)

Other Names

IQSEC1, ARF-GEP100, ARFGEP100, Brefeldin A-resistant ARF-GEF2, BRAG2, IQ motif and Sec7 domain 1, KIAA0763, GEP100

Target/Specificity

IQSEC1 antibody is human, mouse and rat reactive. At least four isoforms of IQSEC1 are known to exist. IQSEC1 antibody is predicted to not cross-react with IQSEC2.

Reconstitution & Storage

PBS, 0.02% sodium azide. Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

Precautions

IQSEC1 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

IQSEC1 Antibody (N-Terminus) - Protein Information

Name IQSEC1 ([HGNC:29112](#))

Function

Guanine nucleotide exchange factor for ARF1 and ARF6 (PubMed: [11226253](http://www.uniprot.org/citations/11226253), PubMed: [24058294](http://www.uniprot.org/citations/24058294)). Guanine nucleotide exchange factor activity is enhanced by lipid binding (PubMed: [24058294](http://www.uniprot.org/citations/24058294)). Accelerates GTP binding by ARFs of all three classes. Guanine nucleotide exchange protein for ARF6, mediating internalization of beta-1 integrin (PubMed: [16461286](http://www.uniprot.org/citations/16461286)). Involved in neuronal development (Probable). In neurons, plays a role in the control of vesicle formation by endocytoc cargo. Upon long term depression, interacts with GRIA2 and mediates the activation of ARF6 to internalize synaptic AMPAR receptors (By

similarity).

Cellular Location

Cytoplasm. Nucleus. Postsynaptic density {ECO:0000250|UniProtKB:Q8R0S2}. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle {ECO:0000250|UniProtKB:Q8R0S2}. Note=At steady state, may be preferentially cytosolic

Tissue Location

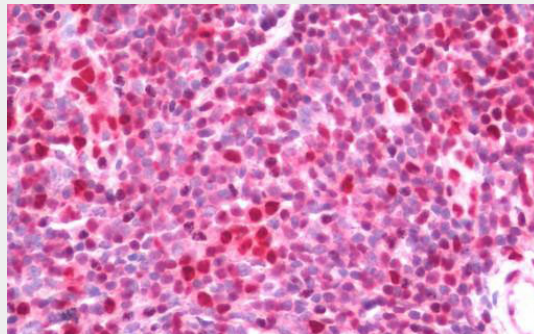
Expressed in brain, ovary, heart, lung, liver, kidney and leukocytes. Moderate expression was also detected in lung, skeletal muscle, placenta, small intestine, pancreas, spleen and testis.

IQSEC1 Antibody (N-Terminus) - Protocols

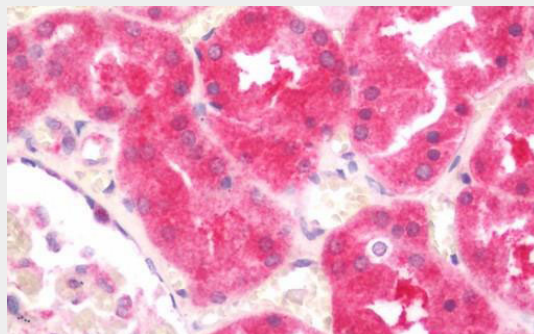
Provided below are standard protocols that you may find useful for product applications.

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

IQSEC1 Antibody (N-Terminus) - Images



Human Tonsil: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)

IQSEC1 Antibody (N-Terminus) - Background

In addition to accelerate GTP gamma S binding by ARFs of all three classes, it appears to function

preferentially as a guanine nucleotide exchange protein for ARF6, mediating internalisation of beta-1 integrin.

IQSEC1 Antibody (N-Terminus) - References

Dunphy J.L., et al. *Curr. Biol.* 16:315-320(2006).

Nagase T., et al. *DNA Res.* 5:277-286(1998).

Someya A., et al. *Proc. Natl. Acad. Sci. U.S.A.* 98:2413-2418(2001).

Dephoure N., et al. *Proc. Natl. Acad. Sci. U.S.A.* 105:10762-10767(2008).

Mayya V., et al. *Sci. Signal.* 2:RA46-RA46(2009).