ARG55005
anti-VAMP8 antibody [1414CT354.12.23.93]

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes VAMP8
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	1414CT354.12.23.93
Isotype	IgG1, kappa
Target Name	VAMP8
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 2-24 of Human VAMP8.
Conjugation	Un-conjugated
Alternate Names	EDB; Vesicle-associated membrane protein 8; Endobrevin; VAMP-8

Application Instructions

Application table

Application	Dilution
IHC-P	Assay-dependent
WB	1:1000 - 1:2000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: A431

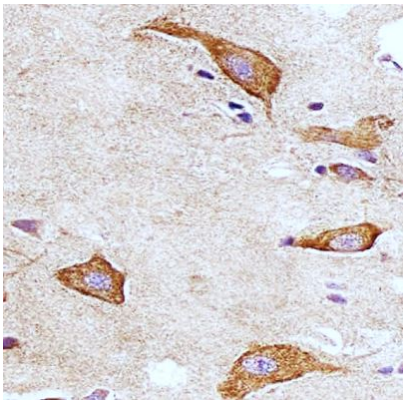
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

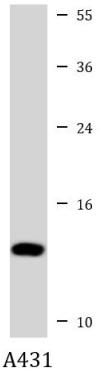
Database links	GeneID: 8673 Human Swiss-port # Q9BV40 Human
Gene Symbol	VAMP8
Gene Full Name	vesicle-associated membrane protein 8
Background	This gene encodes an integral membrane protein that belongs to the synaptobrevin/vesicle-associated membrane protein subfamily of soluble N-ethylmaleimide-sensitive factor attachment protein receptors (SNAREs). The encoded protein is involved in the fusion of synaptic vesicles with the presynaptic membrane.[provided by RefSeq, Jun 2010]
Function	SNAREs, soluble N-ethylmaleimide-sensitive factor-attachment protein receptors, are essential proteins for fusion of cellular membranes. SNAREs localized on opposing membranes assemble to form a trans-SNARE complex, an extended, parallel four alpha-helical bundle that drives membrane fusion. VAMP8 is a SNARE involved in autophagy through the direct control of autophagosome membrane fusion with the lysososome membrane via its interaction with the STX17-SNAP29 binary t-SNARE complex (PubMed:23217709, PubMed:25686604). Also required for dense-granule secretion in platelets (PubMed:12130530). Plays also a role in regulated enzyme secretion in pancreatic acinar cells (By similarity). Involved in the abscission of the midbody during cell division, which leads to completely separate daughter cells (By similarity). Involved in the homotypic fusion of early and late endosomes (By similarity). [UniProt]
Research Area	Immune System antibody; Neuroscience antibody
Calculated Mw	11 kDa
Cellular Localization	Cell membrane, Cytoplasmic vesicle, Endosome, Lysosome, Membrane

Images



ARG55005 anti-VAMP8 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human brain tissue stained with ARG55005 anti-VAMP8 antibody at 1:25 dilution.



ARG55005 anti-VAMP8 antibody WB image

Western blot: 20 µg of A431 cell lysate stained with ARG55005 anti-VAMP8 antibody at 1:1000 dilution.