

VAMP2 Conjugated Antibody

Catalog No: #C38228



Package Size: #C38228-AF350 100ul #C38228-AF405 100ul #C38228-AF488 100ul
 #C38228-AF555 100ul #C38228-AF594 100ul #C38228-AF647 100ul
 #C38228-AF680 100ul #C38228-AF750 100ul #C38228-Biotin 100ul

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Description

Product Name	VAMP2 Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total VAMP2 antibody.
Immunogen Description	Recombinant protein of human VAMP2.
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	VAMP2;FLJ11460;SYB2;VAMP-2 ;
Accession No.	Swiss-Prot#:P63027NCBI Gene ID:6844
Uniprot	P63027
GeneID	6844;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	18
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Background

Vesicle-associated membrane protein 2 (VAMP2, also called synaptobrevin) is part of the R-soluble N-ethylmaleimide-sensitive factor attachment protein receptor (SNARE) complex (1). The SNARE complex is involved in vesicular transport and membrane fusion, a process regulated by calcium (2). In neurons, VAMP2 is predominantly inserted in presynaptic vesicle membranes. Assembly of VAMP2 with the plasma membrane SNAREs syntaxin 1 and SNAP25 is a key event necessary for membrane fusion and neurotransmitter release (2). In addition to this important function, VAMP2 is also involved in granule exocytosis in neutrophils (3) and release of bioactive peptides from cardiac myocytes (4) and juxtaglomerular cells (5).

Note: This product is for in vitro research use only