CACNA1A Conjugated Antibody

Catalog No: #C37454



 Package Size:
 #C37454-AF350 100ul
 #C37454-AF405 100ul
 #C37454-AF488 100ul

 #C37454-AF555 100ul
 #C37454-AF594 100ul
 #C37454-AF647 100ul

 #C37454-AF680 100ul
 #C37454-AF750 100ul
 #C37454-Biotin 100ul

Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Description

Product Name	CACNA1A Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Ни
Specificity	The antibody detects endogenous levels of total CACNA1A protein.
Immunogen Description	Synthetic peptide corresponding to a region derived from internal residues of human calcium channel,
	voltage-dependent, P/Q type, alpha 1A subunit
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	BI; EA2; FHM; MHP; APCA; HPCA; MHP1; SCA6; CAV2.1; CACNL1A4
Accession No.	Swiss-Prot#:O00555NCBI Gene ID:773NCBI Protein#:NP_001192222
Uniprot	O00555
GeneID	773;
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
Formulation	0.01M Sodium Phosphate, 0.25M NaCI, 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 st		

Background

Voltage-dependent calcium channels mediate the entry of calcium ions into excitable cells, and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, and gene expression. Calcium channels are multisubunit complexes composed of alpha-1, beta, alpha-2/delta, and gamma subunits. The channel activity is directed by the pore-forming alpha-1 subunit, whereas, the others act as auxiliary subunits regulating this activity. The distinctive properties of the calcium channel types are related primarily to the expression of a variety of alpha-1 isoforms, alpha-1A, B, C, D, E, and S. This gene encodes the alpha-1A subunit, which is predominantly expressed in neuronal tissue. Mutations in this gene are associated with 2 neurologic disorders, familial hemiplegic migraine and episodic ataxia 2. This gene also exhibits polymorphic variation due to (CAG)n-repeats. Multiple transcript variants encoding different isoforms have been found for this gene. In one set of transcript variants, the (CAG)n-repeats occur in the 3' UTR, and are not associated with any disease. But in another set of variants, an insertion extends the coding region to include the (CAG)n-repeats which encode a polyglutamine tract. Expansion of the (CAG)n-repeats from the normal 4-16 to 21-28 in the coding region is associated with spinocerebellar ataxia 6.

Note: This product is for in vitro research use only