

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Collybistin/ARHGEF9 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 809309
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Collybistin/ARHGEF9 Asn390-Lys516 Accession # O43307
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Collybistin, also known as ARHGEF9, is an approximately 60 kDa cytoplasmic guanine nucleotide exchange factor. It is expressed in the brain and is upregulated at the onset of neuronal differentiation. Collybistin associates with Neuroligin-2, Gephyrin, and GABA receptor subunits to form a complex which is required for GABAergic synaptogenesis as well as hippocampal synaptic plasticity. Mutations in Collybistin are associated with a variety of neurological disorders including epilepsy, anxiety, aggression, mental retardation, and hyperplexia. Human Collybistin contains an SH3 domain (aa 8-67), a DH domain (aa 103-287), and a Pleckstrin homology domain (aa 318-426). Within aa 390-516, human Collybistin shares 97% and 57% aa sequence identity with mouse and rat Collybistin, respectively.

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