COLQ Monoclonal Antibody

Catalog No	BYmab-10828
Isotype	IgG
Reactivity	Human; Mouse; Rat
Applications	WB
Gene Name	COLQ
Protein Name	COLQ
Immunogen	Synthesized peptide derived from human COLQ
Specificity	This antibody detects endogenous levels of human COLQ
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Acetylcholinesterase collagenic tail peptide (AChE Q subunit;Acetylcholinesterase-associated collagen)
Observed Band	50kD
Cell Pathway	Cell junction, synapse.
Tissue Specificity	Found at the end plate of skeletal muscle.
Function	disease:Defects in COLQ are the cause of congenital myasthenic syndrome Engel type (CMSE) [MIM:603034]; also known as end-plate acetylcholinesterase deficiency or congenital myasthenic syndrome type IC (CMS-IC). CMSE is a rare autosomal recessive congenital myastehnic syndrome characterized by onset during childhood, generalized weakness, abnormal fatigability on exertion, refrectoriness to acetylcholinesterase drugs, decremental electromyographic response and morphological abnormalities of the neuromuscular junctions.,domain:The proline-rich attachment domain (PRAD) binds the AChE catalytic subunits.,function:Anchors the catalytic subunits of asymmetric AChE to the synaptic basal lamina.,PTM:The triple-helical tail is stabilized by disulfide bonds at each end.,similarity:Belongs to the COLQ family.,similarity:Contains 2

	collagen-like domains.,subunit:Homotrimer. Component of the asymmet
Background	This gene encodes the subunit of a collagen-like molecule associated with acetylcholinesterase in skeletal muscle. Each molecule is composed of three identical subunits. Each subunit contains a proline-rich attachment domain (PRAD) that binds an acetylcholinesterase tetramer to anchor the catalytic subunit of the enzyme to the basal lamina. Mutations in this gene are associated with endplate acetylcholinesterase deficiency. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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