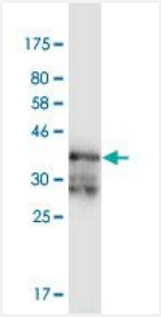
PRKAR2A monoclonal antibody (M02), clone 3C7

Catalog # H00005576-M02 Size 100 ug

Applications



Western Blot detection against Immunogen (37.18 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant PRKAR2A.
Immunogen	PRKAR2A (AAH02763, 1 a.a. ~ 105 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MSHIQIPPGLTELLQGYTVEVLRQQPPDLVEFAVEYFTRLREARAPASVLPAATPRQSLGHPPPEP GPDRVADAKGDSESEEDEDLEVPVPSRFNRRVSVCAETY
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (66); Rat (64)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.18 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

  Protocol Download

- ELISA

Gene Info — PRKAR2A

Entrez GeneID	5576
GeneBank Accession#	BC002763
Protein Accession#	AAH02763
Gene Name	PRKAR2A
Gene Alias	MGC3606, PKR2, PRKAR2
Gene Description	protein kinase, cAMP-dependent, regulatory, type II, alpha
Omim ID	176910
Gene Ontology	Hyperlink
Gene Summary	cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. The protein encoded by this gene is one of the regulatory subunits. This subunit can be phosphorylated by the activated catalytic subunit. It may interact with various A-kinase anchoring proteins and determine the subcellular localization of cAMP-dependent protein kinase. This subunit has been shown to regulate protein transport from endosomes to the Golgi apparatus and further to the endoplasmic reticulum (ER). [provided by RefSeq
Other Designations	cAMP-dependent protein kinase regulatory subunit RII alpha|cAMP-dependent protein kinase, regulatory subunit alpha 2|protein kinase A, RII-alpha subunit

Pathway

- Apoptosis
- Insulin signaling pathway

Disease

- Genetic Predisposition to Disease
- Schizophrenia