

ARG42375
anti-PDE8A antibody [EM-52]Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [EM-52] recognizes PDE8A
Tested Reactivity	Hu
Tested Application	WB
Specificity	The mouse monoclonal antibody EM-52 recognizes PDE8a (phosphodiesterase 8 A), an approximately 93 kDa intracellular enzyme that hydrolyzes cAMP to 5'AMP.
Host	Mouse
Clonality	Monoclonal
Clone	EM-52
Isotype	IgG1, kappa
Target Name	PDE8A
Species	Human
Immunogen	Human PDE8A.
Conjugation	Un-conjugated
Alternate Names	HsT19550; High affinity cAMP-specific and IBMX-insensitive 3',5'-cyclic phosphodiesterase 8A; EC 3.1.4.53

Application Instructions

Application table	Application	Dilution
	WB	1 - 2 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

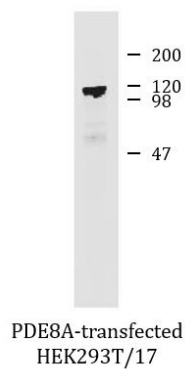
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS and 15 mM Sodium azide.
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	PDE8A
Gene Full Name	phosphodiesterase 8A
Background	The protein encoded by this gene belongs to the cyclic nucleotide phosphodiesterase (PDE) family, and PDE8 subfamily. This PDE hydrolyzes the second messenger, cAMP, which is a regulator and mediator of a number of cellular responses to extracellular signals. Thus, by regulating the cellular concentration of cAMP, this protein plays a key role in many important physiological processes. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2011]
Function	Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes (PubMed:18983167). May be involved in maintaining basal levels of the cyclic nucleotide and/or in the cAMP regulation of germ cell development (PubMed:18983167). Binding to RAF1 reduces RAF1 'Ser-259' inhibitory-phosphorylation and stimulates RAF1-dependent EGF-activated ERK-signaling (PubMed:23509299). Protects against cell death induced by hydrogen peroxide and staurosporine (PubMed:23509299). [UniProt]
Calculated Mw	93 kDa
PTM	Phosphorylated at Ser-359 by PKA under elevated cAMP conditions, this enhances catalytic activity. [UniProt]

Images



ARG42375 anti-PDE8A antibody [EM-52] WB image

Western blot: PDE8A-transfected HEK293T/17. Cell lysate was stained with ARG42375 anti-PDE8A antibody [EM-52], under reducing conditions.