Human/Mouse/Rat PKA C Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 485013

Catalog Number: FAB4175G

100 µg

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human PKA Cα, Cβ, and Cγ as well as endogenous human, mouse, and rat PKA C isoforms at 39-42 kDa using Western blot.
Source	Monoclonal Mouse IgG_{2A} Clone # 485013
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human PKA Cγ Met1-Phe351 Accession # ABM84853
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

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

The cAMP-dependent protein kinase (PKA) holoenzyme is composed of two regulatory and two catalytic subunits, designated PKA R and PKA C, respectively. Three catalytic subunit isoforms, Cα, Cβ, and Cγ, have been identified. Upon PKA R subunit binding to the second messenger cAMP, active PKA C subunits are released, initiating a phosphorylation cascade that regulates such cellular functions as metabolism, ion transport, and gene transcription.

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