Mouse/Rat CREB Alexa Fluor® 488-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 485422

Catalog Number: FAB5435G

100 µg

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	The antibody detects endogenous mouse and rat CREB on Western blots.
Source	Monoclonal Rat IgG_{2A} Clone # 485422
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant mouse CREB Met1-Lys69 Accession # NP_001032815
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 response element binding protein (CREB), also known as CREB1, belongs to the bZIP family of transcription factors. Each bZIP family member contains a basic domain that mediates DNA binding and a leucine zipper domain that facilitates dimerization. Within the promoter of target genes, CREB dimers bind cAMP response elements, defined by the palindromic consensus sequence TGACGTCA. CREB becomes phosphorylated at specific residues in response to DNA damage and circadian cycles.

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