

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CREB when phosphorylated at S133.
Source	Monoclonal Mouse IgG _{2A} Clone # 702710
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Phosphopeptide containing the human CREB S133 site
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.
Immunocytochemistry	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) belongs to the bZIP superfamily of transcription factors, containing 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. When phosphorylated at Ser133, CREB also binds the coactivator CREB binding protein (CBP), which enhances transcription by acetylating histones to facilitate chromatin unraveling.

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