Creb (Phospho-S133) Rabbit mAb

Catalog No: #13435

Package Size: #13435-1 50ul #13435-2 100ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

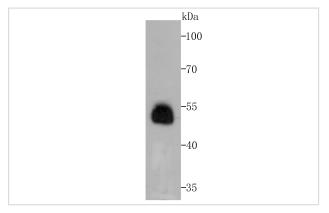
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Product Name	Creb (Phospho-S133) Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	JB25-40
Purification	ProA affinity purified
Applications	WB;ICC/IF;IHC
Species Reactivity	Human;Mouse
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Ser133 of human Creb.
Conjugates	Unconjugated
Other Names	Active transcription factor CREB antibody cAMP response element binding protein 1 antibody cAMP
	response element binding protein antibody cAMP responsive element binding protein 1 antibody
	cAMP-responsive element-binding protein 1 antibody CREB antibody CREB-1 antibody CREB1 antibody
	CREB1_HUMAN antibody Cyclic AMP-responsive element-binding protein 1 antibody MGC9284 antibody
	OTTHUMP00000163864 antibody OTTHUMP00000163865 antibody OTTHUMP00000206660 antibody
	OTTHUMP00000206662 antibody OTTHUMP00000206667 antibody Transactivator protein antibody
Accession No.	Swiss-Prot#:P16220
Calculated MW	35 kDa
SDS-PAGE MW	46 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

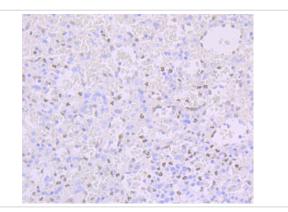
Application Details

WB: 1:500-1:2000 ICC/IF: 1:50-1:200 IHC: 1:50-1:200

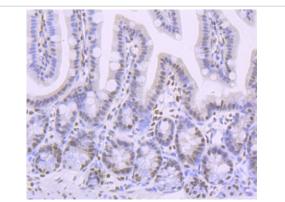
Images



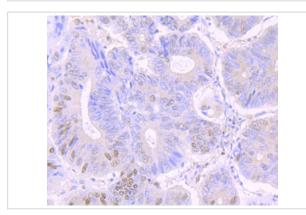
Western blot analysis of Phospho-Creb (S133) on human colon tissue lysates using anti-Phospho-Creb (S133) antibody at 1/500 dilution.



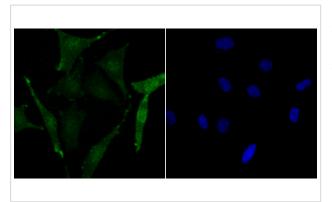
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-Phospho-Creb (S133) antibody. Counter stained with hematoxylin.



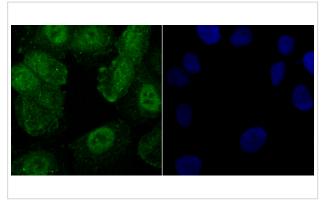
Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-Phospho-Creb (S133) antibody. Counter stained with hematoxylin.



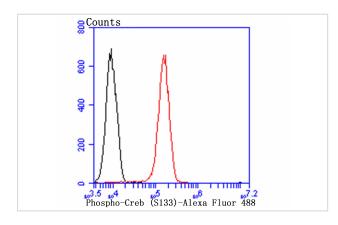
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-Phospho-Creb (S133) antibody. Counter stained with hematoxylin.



ICC staining Phospho-Creb (S133) in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Phospho-Creb (S133) in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of HUVEC cells with Phospho-Creb (S133) antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

Phosphorylation-dependent transcription factor that stimulates transcription upon binding to the DNA cAMP response element (CRE), a sequence present in many viral and cellular promoters. Transcription activation is enhanced by the TORC coactivators which act independently of Ser-133 phosphorylation. Involved in different cellular processes including the synchronization of circadian rhythmicity and the differentiation of adipose cells.

References

- 1. Comerford K M et al. Small ubiquitin-related modifier-1 modification mediates resolution of CREB-dependent responses to hypoxia. Proc Natl Acad Sci USA 100:986-991 (2003).
- 2. Kitazawa S et al. A p.D116G mutation in CREB1 leads to novel multiple malformation syndrome resembling CrebA knockout mouse. Hum Mutat 33:651-654 (2012).

Published Papers

el at., Lactobacillus pentosus LPQ1 attenuates depressive-like behavior in BALB/C mice induced by chronic unpredictable mild stress (CUMS), , (2024)

PMID:

Alisa M. Agne; JanPeter Baldin; Audra R. Benjamin; Maria C. Orogo-Wenn; Lukas Wichmann; Kenneth R. Olson; Dafydd V. Walters; Mike Althaus el at., Hydrogen sulfide decreases β-adrenergic agonist-stimulated lung liquid clearance by inhibiting ENaC-mediated transepithelial sodium absorption, , (2015)

PMID:

Note: This product is for in vitro research use only and is not intended for use in humans or animals.