Creb (Phospho-S133) Rabbit mAb

Catalog No: #13435

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

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

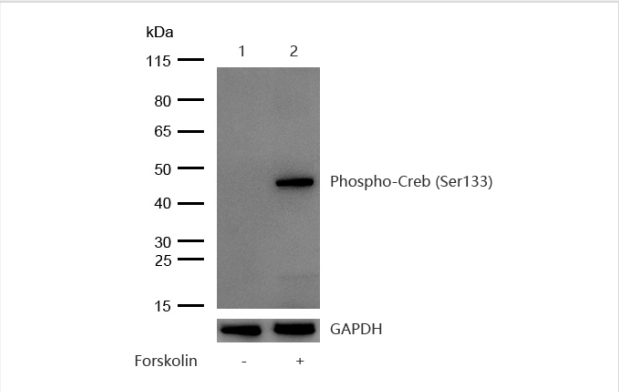
Description

Product Name	Creb (Phospho-S133) Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Purification	Affinity-chromatography
Applications	WB;IHC;ICC/IF;IP;FC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	A synthesized peptide derived from human CREB1 around the phosphorylation site of S133
Conjugates	Unconjugated
Other Names	cAMP responsive element binding protein 1; CREB1; CREB-1
Accession No.	Swiss-Prot#:P16220
Calculated MW	35 kDa
SDS-PAGE MW	44 kDa
Formulation	Rabbit IgG in 10mM phosphate buffered saline , pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Storage	Store at +4°C for short term. Store at -20°C for long term. Avoid freeze/thaw cycle.

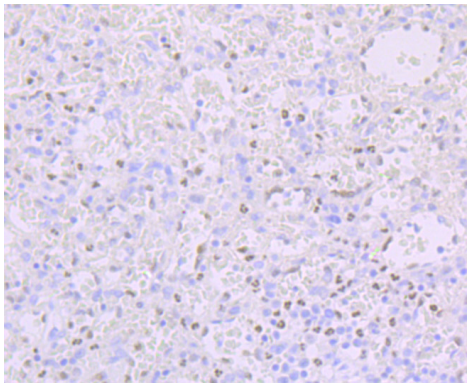
Application Details

WB 1:1000-1:2000 IHC 1:100-1:200 ICC/IF 1:50-1:200 IP 1:20-1:50 FC 1:20-1:100

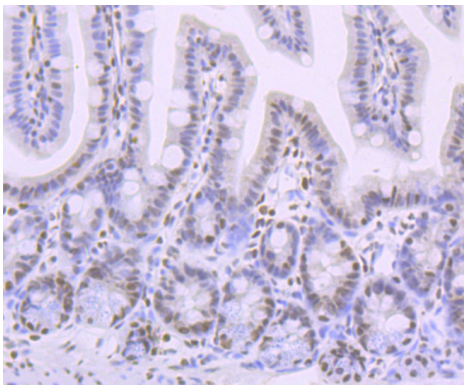
Images



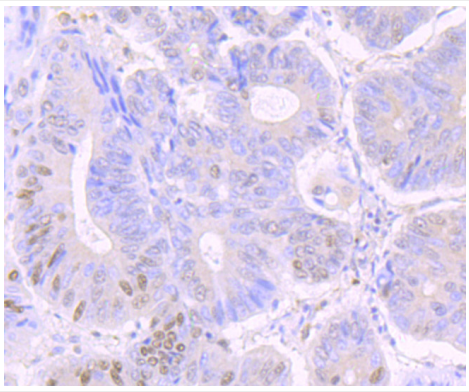
All lanes : Creb (Phospho-S133) Rabbit mAb at 1/1k dilutionLane 1 : Hela whole cell lysatesLane 2 : HeLa treated with 10 μM Forskolin for 30min whole cell lysatesSecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 35 kDa Observed band size: 46 kDaExposure time: 5 seconds



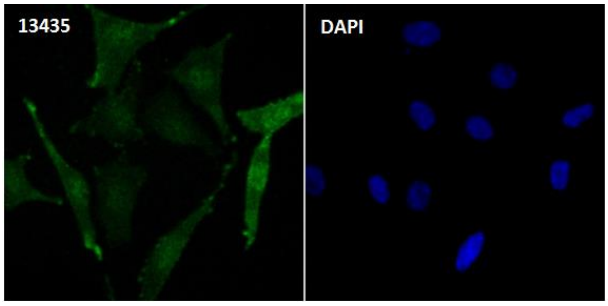
Formalin-fixed;paraffin-embedded human spleen tissue stained for Creb (Phospho-S133) using 13435 at 1/100 dilution in immunohistochemical analysis.



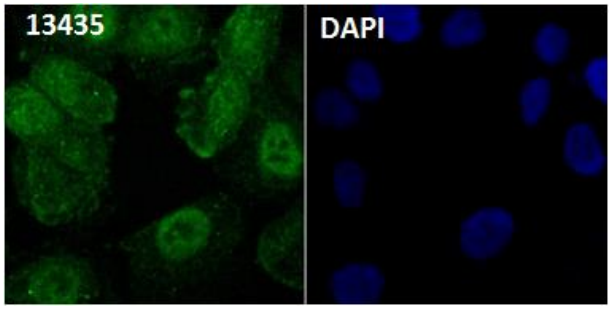
Formalin-fixed;paraffin-embedded mouse colon tissue stained for Creb (Phospho-S133) using 13435 at 1/100 dilution in immunohistochemical analysis.



Formalin-fixed;paraffin-embedded human colon cancer tissue stained for Creb (Phospho-S133) using 13435 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence Creb (Phospho-S133) antibody (13435)
ICC/IF staining of Creb (Phospho-S133) in SHSY5Y cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.
Samples were incubated with 13435 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit;used at a dilution of 1/500.
Nuclei were counterstained with DAPI.



Immunocytochemistry/ Immunofluorescence Creb (Phospho-S133) antibody (13435)
ICC/IF staining of Creb (Phospho-S133) in HUVEC cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.
Samples were incubated with 13435 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit;used at a dilution of 1/500.
Nuclei were counterstained with DAPI.

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.