#12629 Store at -20C

Acetyl-NF-κB p65 (Lys310) (D2S3J) Rabbit mAb



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Applications: WB, IP	Reactivity: H M	Sensitivity: Transfected Only	MW (kDa): 65	Source/Isotype: Rabbit IgG	UniProt ID: #Q04206	Entrez-Gene Id 5970	
Product Usage Information	Ар	plication		Dilution			
	We	stern Blotting		1:1000			
	Imr	nunoprecipitation		1:100			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity / Sensitiv		tyl-NF-кВ p65 (Lys3 when acetylated at	, ,	erexpressed levels of N	NF-кВ p65 protein		
Species predicted to react based on 100% sequence homology	6	Monkey					
Source / Purification	n Mor	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to					

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys310 of human NF- κ B p65 protein.

Background

Transcription factors of the nuclear factor κB (NF-κB)/Rel family play a pivotal role in inflammatory and immune responses (1,2). There are five family members in mammals: RelA, c-Rel, RelB, NF-κB1 (p105/p50), and NF-κB2 (p100/p52). Both p105 and p100 are proteolytically processed by the proteasome to produce p50 and p52, respectively. Rel proteins bind p50 and p52 to form dimeric complexes that bind DNA and regulate transcription. In unstimulated cells, NF-κB is sequestered in the cytoplasm by IκB inhibitory proteins (3-5). NF-κB-activating agents can induce the phosphorylation of IκB proteins, targeting them for rapid degradation through the ubiquitin-proteasome pathway and releasing NF-κB to enter the nucleus where it regulates gene expression (6-8). NIK and IKKα (IKK1) regulate the phosphorylation and processing of NF-κB2 (p100) to produce p52, which translocates to the nucleus (9-11). NF-κB assembly with IκB, DNA binding, and transcriptional activity, are regulated by p300/CBP acetytransferases that principally target Lys218, Lys221, and Lys310 (12-14). This process is reciprocally regulated by histone deacetylases (HDACs); several HDAC inhibitors have been shown to activate NF-κB (12-14).

Background References

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Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

3/23/24, 10:42 AM Acetyl-NF-kB p65 (Lys310) (D2S3J) Rabbit mAb (#12629) Datasheet Without Images Cell Signaling Techn...

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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