



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rabbit Anti Rat CREB (pSER133)

With HRP-conjugated Secondary Antibody

Catalog No.
DS-PB-00552

Target Species
Rat

Isotype
Polyclonal IgG

Preparation

Antisera to phosphorylated rat CREB were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography.

Immunogen: Synthetic phosphopeptide corresponding to an amino acid sequence within CREB which includes phosphorylated Ser133.

Specificity

DS-PB-00552 is specific for rat cyclic AMP response element binding protein (CREB), when phosphorylated at serine 133. CREB is a member of the leucine zipper family of transcription factors, which is involved in a wide range of intracellular signalling processes.

Phosphorylation of serine 133 has been demonstrated by several protein kinases, including protein kinase A (PKA), mitogen activated protein kinase (MAPK) and Ca²⁺ /calmodulin-dependent protein kinase (CaMK). This phosphorylation is required for CREB mediated transcription.

Species Cross-reactivity: Based on sequence similarity, is expected to react with: Mouse, Dog, Xenopus, Zebrafish, Human, Bovine, Monkey, Chicken, Sheep.

*Antibody reactivity and working conditions may vary between species

Western Blotting: Detects a band of approximately 45kDa in rat hippocampus lysates that had been incubated in the presence of forskolin.

Formulation

Product Type:	Polyclonal Antibody
Product Form:	Purified IgG - liquid
Preservative Stabilizers:	0.09% Sodium Azide, 0.01% Bovine Serum Albumin, 50% Glycerol
Buffer Solution:	10mM HEPES pH7.5

The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.



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Storage

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life: 12 months from dispatch

Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			.	
Western Blotting	.			1:1000
Immunohistology - frozen			.	
Immunohistology - paraffin			.	
Immunohistology - resin			.	
Immunoprecipitation			.	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	.			1:5000-1:10000

References

1. Mayr, B.M. *et al.* (2001) Distinct effects of cAMP and mitogenic signals on CREB-binding protein recruitment impart specificity to target gene activation via CREB. *Proc. Natl. Acad. Sci. USA* 98: 10936 - 10941.

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