



Qty: 100 µg/200 µl

Mouse anti-CREB

Catalog No. 35-0900

Lot No.

Mouse anti-CREB (cAMP Response Element Binding Protein)

FORM

This monoclonal antibody is supplied as a 200 µl aliquot at a concentration of 0.5 mg/ml in PBS, pH 7.4, containing 0.1% sodium azide. This antibody is highly purified from mouse ascites by protein A chromatography.

CLONE: LB 9

ISOTYPE: Mouse IgG₁

IMMUNOGEN

Recombinant human CREB-A protein.

SPECIFICITY

This antibody reacts with the 43 kDa CREB protein.

REACTIVITY

Reactivity is confirmed with human H9 and Jurkat lymphoblasts, HeLa cells, Hep G2 hepatoma cells and WI-38 fibroblasts. Reactivity confirmed with rat 208F and with mouse BALB/c 3T3 fibroblasts and F9 embryonal cell carcinoma stem cells.

Sample	ELISA	Western Blotting
Human	++	++
Mouse	++	++
Rat	++	++

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable NA)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.1-1.0 µg/ml
Western Blotting: 1-5 µg/ml

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long term storage. Avoid repeated freezing and thawing.

(cont'd)

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PI350900

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BACKGROUND

Mammalian cells express two distinct forms of transcription factor CREB (cAMP response element binding protein) that are thought to be products of alternative splicing of the CREB transcript. Both forms encode proteins that bind specifically to a cAMP response element *in vitro*. The presence of multiple CREB isoforms with identical DNA-binding specifications but differences in the presumed regulatory domain raises the possibility that CREB proteins may be able to integrate distinct regulatory signals at the level of gene transcription. CREB proteins could serve as a molecular focus for the "cross talk" often observed among signal transduction pathways.

REFERENCES

Laura A. Berkowitz and Michael Z. Gilman. Two distinct forms of active transcription factor CREB (cAMP response element binding protein). *PNAS* 87: 5258-5262, (1990).

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Rabbit anti-Phosphoserine	Z-PS1	61-8100
Rabbit anti-Phosphothreonine	Z-PT1	71-8200
Mouse anti-Phosphothreonine	PT-5H5	13-9200
Mouse anti-Phosphotyrosine	PY20	03-7700
Mouse anti-Phosphotyrosine	PY-7E1	13-5900
Rabbit anti-Phosphotyrosine	Z-PY1	61-5800
Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

*PAD: Polyclonal Antibody Designation

Conjugate	ZyMAX™ Goat x Rabbit IgG (H+L)	ZyMAX™ Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy™3	81-6115	81-6515
Cy™5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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