



Qty: 100 µg/200 µL

Mouse anti-ICSBP

Catalog No. 39-8800

Lot No.

Mouse anti-ICSBP

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: Z1003

ISOTYPE: Mouse IgG1-kappa

IMMUNOGEN

Synthetic peptide derived from the C-terminal region of the human ICSBP protein, which is 88% homologous to mouse

SPECIFICITY

This antibody is specific for the ICSBP (interferon consensus sequence binding protein, ICSBP1, interferon regulatory factor 8 (IRF-8)) protein. On Western blots, it identifies the target band at ~ 48 kDa.

REACTIVITY

Reactivity has been confirmed with human Ramos cell lysates and mouse thymus extracts.

Sample	ELISA	Western Blotting
Human	ND	+++
Mouse	ND	+++
Immunogen	+++	ND

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

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 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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PI398800

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BACKGROUND

ICSBP (interferon consensus sequence binding protein, ICSBP1, interferon regulatory factor 8 (IRF8)) is a transcription factor of the interferon (IFN) regulatory factor (IRF) family.^{1,2} The IRF family proteins bind to the IFN stimulated response element (ISRE) and regulate expression of genes stimulated by type I IFNs, namely IFN- α and IFN- β . IRF family proteins also control expression of IFN- α and IFN- β regulated genes that are induced by viral infection.

ICSBP specifically binds to the upstream regulatory region of type I IFN and IFN inducible MHC class I genes (the interferon consensus sequence (ICS)). Unlike IRF3, ICSBP appears to act as a negative regulator of IFN induced genes in most cases, and it mediates activation of NF κ B by the toll like receptor 9 (TLR9) after stimulation by unmethylated CpG DNA in dendritic cells. It has been shown that ICSBP decreases bcl-2 expression and thus may play a role in chronic myelogenous leukemia. ICSBP is expressed exclusively in cells of the immune system.³

REFERENCES

1. Weisz A, et al. *J Biol Chem* 267:25589-25596, 1992.
2. Cohen H, et al. *J Biol Chem* 275:39081-39089, 2000.
3. Driggers, PH, et al. *Nucleic Acids Res* 20:2533-2540, 1992.

RELATED PRODUCTS

Product	Conjugate	Cat. No.
Protein A	Sepharose [®] 4B	10-1041
rec-Protein G	Sepharose [®] 4B	10-1241

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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