



Qty: 100 µg/200 µl

Mouse anti-SRp20

Catalog No. 33-4200

Lot No. See product label

Mouse anti-SRp20

FORM

This monoclonal antibody is supplied as a 200 µl aliquot at a concentration of 0.5 mg/ml in phosphate buffered saline (pH 7.4) containing 0.1% sodium azide. The antibody is highly purified from mouse ascites by Protein A affinity chromatography.

CLONE: 7B4 (7B4A12)

ISOTYPE: Mouse IgG₁-kappa

IMMUNOGEN

A synthetic peptide corresponding to amino acids 84-104 of the human SRp20 protein.

SPECIFICITY

This antibody is specific for the non-snRNP splicing factor SRp20 and does not cross react with other SR protein family members. Antibody reactivity was confirmed by Western blotting using HeLa cell extracts and HeLa cell nuclear extracts. Reactivity of the antibody is not dependent upon phosphorylation of the SRp20 protein.

REACTIVITY

Reactivity with this antibody has been confirmed with human.

Sample	ELISA	Western Blotting	Immuno-fluorescence
Human		+++	+++
Immunogen	+++		

(Excellent +++, Good ++, Poor +, No reactivity 0)

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: 0.5-1.0 µg/ml

Immunofluorescence: 5-10 µg

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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PI334200

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BACKGROUND

SR proteins are essential splicing factors involved in the use of both constitutive and alternative exons.⁽³⁾ Most splicing factors are concentrated within the mammalian cell nucleus in 20-40 distinct domains called speckles.^(1,2) SRp20 has been shown to activate exon 4 splicing.⁽³⁾

REFERENCES

1. Neugebauer, K.M. and Roth, M.B. Distribution of pre-mRNA splicing factors at sites of RNA polymerase II transcription. *Genes and Development* 11(9):1148-1159, 1997.
2. Misteli T, Cáceres J.F., Spector D.L. The dynamics of a pre-mRNA splicing factor in living cells. *Nature* 387(6632):523-527, 1997.
3. Jumaa H., Nielsen P.J. Regulation of SRp20 exon 4 splicing. *Biochem Biophys Acta* 1494(1-2):137-43, 2000.

RELATED PRODUCTS

<u>Product</u>	<u>Clone/PAD</u>	<u>Cat. No.</u>
Mouse anti-SR	1H4 (1H4G7)	33-9400
Mouse anti-SR proteins	16H3 (16H3E8)	33-9300

<u>Product</u>	<u>Conjugate</u>	<u>Cat. No.</u>
Goat anti-Mouse IgG (H+L) (ZyMAX™ Grade)	Purified	81-6500
	FITC	81-6511
	TRITC	81-6514
	Cy™3	81-6515
	Cy™5	81-6516
	HRP	81-6520
	AP	81-6522
	Biotin	81-6540

Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

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