



Qty: 100 µg/200 µL

Mouse anti-L11

Catalog No. 37-3000

Lot No.

Mouse anti-L11

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: 3A4A7

ISOTYPE: Mouse IgG₁-kappa

IMMUNOGEN

L11-GST fusion protein.

SPECIFICITY

This antibody is specific for endogenous human L11 proteins. On Western blots, it identifies a band at ~20 kDa.

REACTIVITY

Reactivity has been confirmed with HEK293T cell lysates.

Sample	Immuno-precipitation (native)	ELISA	Western Blotting
Human	0*	ND	+++
Immunogen	ND	+++	ND

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

*No reactivity observed under conditions tested.

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.

Western Blotting: 1-3 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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BACKGROUND

Interactions between ribosomal protein L11 and a domain of large subunit rRNA have been highly conserved across species and are essential for efficient protein synthesis.¹ In *E. coli*, L11 protein is located at the base of the L7/L12 stalk of the 50S subunit.² The C-terminal domain of L11, L11-C76, recognizes and binds in the distorted minor groove of a helix within a 58-nucleotide domain of 23 S ribosomal RNA, whose secondary structure consists of three helical stems and a central junction loop.^{3,4} The conserved structural core of the protein consists of a bundle of three alpha-helices and a two-stranded parallel beta-sheets.³ When fused with His-Tag and S-tag sequences, L11 showed a molecular weight of around 21 kDa as expected.⁵

Recently, L11 has been described as interacting with the human homologue of MDM2, HDM2, at a region distinct from the ARF binding site.^{6,7} L11 binding to HDM2 inhibits HDM2 function, leading to the stabilization and activation of p53.

REFERENCES

1. Xing Y and Draper DE. *J Mol Biol* 249(2):319-331, 1995.
2. Agrawal RK, et al. *J Mol Biol* 311(4):777-787, 2001.
3. Hinck AP, et al. *J Mol Biol* 274(1):101-113, 1997.
4. GuhaThakurta D and Draper DE. *J Mol Biol* 295(3):567-580, 2000.
5. Yang X and Ishiguro EE. *J Bacteriol* 183(22):6532-6537, 2001.
6. Lohrum MA, et al. *Cancer Cell* 3(6):577-587, 2003.
7. Zhang Y, et al. *Mol Cell Biol* 23(23):8902-8912, 2003.

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Mouse anti-MDM2	IF2	33-7100
Mouse anti-p53	BP53.12	18-0129
Mouse anti-p53	DO-7	18-7251
Mouse anti-p53	PAB240	13-4100
Mouse anti-p53	PAB1801	13-4000
Rabbit anti-phospho-p53 (Ser392)	PS392	36-9000
Rabbit anti-ARF (p14)	ZF14	71-8100
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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