



Qty: 100 µg/200 µL

Mouse anti-L1

Catalog No. 37-5100

Lot No.

Mouse anti-L1

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: L1.1

ISOTYPE: Mouse IgG₁-kappa

IMMUNOGEN

3T3 fibroblasts transfected with the human L1 protein

SPECIFICITY

This antibody is specific for human L1 protein. This protein shares 88% homology with mouse and rat L1.

REACTIVITY

Reactivity has been confirmed with human L1-transfected rat B28 cells.^{1,2}

Sample	ELISA	Immuno-precipitation ^{1,2}	Immuno-fluorescence ^{1,2}	Immunocyto-chemistry
Human	ND	++	++	++
Immunogen	+++	ND	ND	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
Immunoprecipitation: 5-10 µg/test
Immunofluorescence: 5-10 µg/test
Immunocytochemistry: 0.5-5 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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PI375100

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BACKGROUND

The L1 adhesion molecule is a 200-220 kDa membrane glycoprotein of the immunoglobulin superfamily. Initially studied in the nervous system, L1 is involved in important processes such as neuron-neuron adhesion and migration, axonal outgrowth and fasciculation, myelination, and synaptic plasticity³⁻⁵. Mutations in the L1 gene product have been shown to cause abnormal brain development.⁶ Outside the nervous system, L1 is expressed in hematopoietic and certain epithelial cells in many humans.⁷ L1 is also active in the mitogen-activated protein kinase (MAPK) signaling cascade.⁸

REFERENCES

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7. Pancook J, et al. *J Immunol* 158:4413-4421, 1997.
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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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