



Qty: 100 µg/200 µl

Mouse anti-Dlg

Catalog No. 35-9000

Lot No.

Mouse anti-Dlg (Drosophila Discs Large)

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: 2D11

ISOTYPE: Mouse IgG₁.kappa

IMMUNOGEN

Human lymphocyte Dlg fusion protein.

SPECIFICITY

This antibody reacts the ~130 kDa human Dlg protein. Reactivity with human p55, PSD-95 and other related MAGUK proteins has not been observed. This antibody reacts with an epitope located within amino acids 1-166.

REACTIVITY

Reactivity is confirmed with human HeLa cells. Jurkat cells, Caco-2 and human T lymphocytes can also be used as positive controls.

Sample	Immuno-precipitation (native)	Immuno-fluorescence	Western Blotting	ELISA
Human	++	+++	+++	ND
Mouse	ND	ND	ND	ND
Rat	ND	ND	ND	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 µg/ml

Immunofluorescence¹: see reference

Immunoprecipitation: 5-10 µg/IP reaction

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

The human homolog of *Drosophila* discs large (Dlg) contains a C-terminus domain homologous to known guanylate kinases, and a src homology 3 region motif. This structure is characteristic of the membrane associated guanylate kinase (MAGUK) proteins.¹ DLG mRNA transcripts are widely distributed in mouse and human tissues, and the protein is localized to regions of cell-cell contact.²

In *Drosophila*, the germ line mutations in the lethal discs large 1 (*dlg*) locus result in imaginal disc neoplasia and a prolonged larval period followed by death.² Recessive lesions have been described in seven *Drosophila* genes that lead to overgrowth of the imaginal discs.

REFERENCES

1. Nix SL, et al. *J Biol Chem* 275(52):41192-41200, 2000.
2. Lue RA, et al. *PNAS* 91(21):9818-9822, 1994.

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Rb anti-PSD-95	B102	51-6900
Ms anti-ZO-1	ZO-1-1A12	33-9100
Rb anti-ZO-1	Z-R1	61-7300
Rb anti-ZO-2	Z54.PL	71-1400
Ms anti-Occludin	OC-3F10	33-1500
Rb anti-Occludin	Polyclonal	71-1500
Ms anti-CASK/LIN-2	3F1B7	32-1800
Rb anti-CASK/LIN-2	VAD-94	71-5000
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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