



Qty: 100 µl

Mouse anti-p120^{ctn} (CT)

Catalog No. 33-9600

Lot No. See product label

Mouse anti- p120^{ctn} (CT)

FORM

This monoclonal antibody is supplied as a 100 µl aliquot of neat (undiluted) mouse ascites fluid containing 0.1% sodium azide as a preservative.

CLONE: 15D2 **ISOTYPE:** IgG₁-kappa

IMMUNOGEN

Recombinant fusion protein derived from the C-terminus of murine p120^{ctn}.

SPECIFICITY

This monoclonal antibody is specific for p120^{ctn} proteins and can be used to detect isoforms 1-4 of the protein. Western blotting, immunoprecipitation, and immunofluorescence were used to confirm antibody reactivity⁽¹⁷⁾. Positive control lysates include MDCK (dog) cells, NIH 3T3 (Mouse) cells, Va-2 (human) fibroblasts, HeLa (human) cells, and rat-2 fibroblasts.

REACTIVITY

This antibody is confirmed reactive with human, mouse, rat and dog p120^{ctn}. Reactivity with the chicken protein is weak but detectable. Reactivity with other species has not been evaluated.

Sample	ELISA	Immuno- fluorescence	Immuno- precipitation (native)	Western Blotting
Chicken		nd	+/-	+/-
Human		nd	+	+
Mouse		nd	+	+
Rat		nd	+	+
Dog		+	+	+
Immunogen	+			

nd-not determined

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 following dilutions or amounts are recommended starting points for this product.

ELISA: 1:1000-1:10,000
Immunoprecipitation: 5-10 µl/IP reaction
Immunofluorescence: 1:250-1:500
Western Blotting: 1:1000

The suitability of this antibody for applications other than those listed here has not been evaluated.

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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PI339600

(Rev 10/08) DCC-08-1089

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BACKGROUND:

Originally characterized as a prominent substrate for Src⁽¹⁴⁾ and receptor protein tyrosine kinases (eg, EGF, PDGF, CSF-1)⁽⁶⁾, p120^{ctn} is a novel catenin^(10, 13) which binds directly to the juxtamembrane region of classical cadherins (eg, E-cadherin).^(3, 11, 13, 18) Emerging evidence suggests a prominent role in the regulation of cadherin mediated adhesion.^(1, 4, 12)

Most cells express multiple isoforms of p120 that arise by alternative splicing^(8, 9, 11), some of which can be distinguished using monoclonal antibodies.⁽¹⁷⁾ Fibroblasts express mostly type 1 isoforms containing an N-terminal extension of 101 amino acids. Type I isoforms may be important for cell motility and are selectively recognized by Mab 6H11. Epithelial cells preferentially express shorter isoforms lacking this extension. Mab 15D2 reacts with a C-terminal epitope found in all known p120 isoforms.

Heterogeneous or negative p120 staining has been reported in breast⁽⁵⁾ and colon carcinomas^(7, 16), and decreased p120 expression in bladder tumors correlated with a poor prognosis.⁽¹⁵⁾ Loss of p120 or E-cadherin never occurs in epithelial tissues under normal circumstances, and its expression is probably mandatory for normal tissue architecture. Interestingly, p120 was recently reported to bind a nuclear POZ/ZF transcription factor called Kaiso.⁽²⁾ Thus, like its cousin β -catenin, p120 may have dual roles in both cell-cell adhesion and in nuclear signaling.

REFERENCES

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RELATED PRODUCTS

Product	Clone	Cat. No.
Ms x p120ctn (NT)	6H11	33-9700
Ms x α -Catenin	α CAT-7A4	13-9700
Rb x α -Catenin	ZER2	71-1200
Ms x β -Catenin	CAT-5H10	13-8400
Rb x β -Catenin (CT)	CAT-15	71-2700
Ms x γ -Catenin	PG-11E4	13-8500
Ms x E-Cadherin	4A2C7	33-4000
Ms x E-Cadherin	HECD-1	13-1700
Ms x E-Cadherin	SHE78-7	13-5700
Rt x E-Cadherin	ECCD-1	13-1800
Rt x E-Cadherin	ECCD-2	13-1900
Rt x N-Cadherin	NCD-2	13-2100
Ms x N-Cadherin	3B9	33-3900
Rt x P-Cadherin	PCD-1	13-2000
Ms x P-Cadherin	NCC-CAD-299	13-5800
Rb x pan-Cadherin	ZyPC7	71-7100
E-Cadherin ELISA Kit (42 test)	Kit	99-1700

Product	Conjugate	Cat. No.
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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