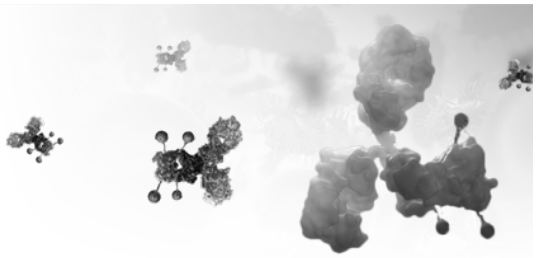

Mouse anti-Mouse Maspin monoclonal antibody, clone 53 (CABT-B9234)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Mouse Melusin aa. 61-258
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Rat, Human, Mouse
Clone	53
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; IF
Format	Liquid
Concentration	250 µg/ml
Size	50 µg
Buffer	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.
Storage	Store undiluted at -20°C.

BACKGROUND

Introduction	Integrins are membrane receptors that mediate cell-cell or cell-matrix adhesion. All integrins are

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transmembrane heterodimers composed of α and β subunits that are connected to the cytoskeleton. In mammals, at least 17 α subunits and 8 β subunits have been identified, and these proteins can heterodimerize to form at least 22 different receptors. The β1 subgroup of the integrin receptors consists of at least 6 different dimer combinations. A variety of signal transduction proteins have been shown to bind the cytoplamic domain of β1 integrins. These include melusin, ILK, ICAP, and RACK1. Melusin is expressed preferentially in muscle and heart, and contains putative SH3 domain binding motifs in the N-terminal region, two putative SH2 binding sites, and a C-terminal acidic amino acid stretch (CAAS) similar to the calcium binding proteins, calreticulin and calsequestrin. In muscle, melusin protein is localized in two rows flanking α-actinin at Z-lines, and melusin mRNA is upregulated during neonatal development. Differentiation of C2C12 murine myogenic cell line by serum starvation also upregulates melusin protein and mRNA. Thus, melusin may be an important signal transducer for β1 integrins during muscle development.

Keywords ITGB1BP2; integrin beta 1 binding protein (melusin) 2; integrin beta-1-binding protein 2; CHORDC3; ITGB1BP; MELUSIN; MSTP015; MGC119214;

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