



Rat Anti-Human Integrin $\beta 7$ Monoclonal antibody, clone FIB504 (CABT-L4346)

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

PRODUCT INFORMATION

Product Overview	The FIB504 monoclonal antibody reacts with human and mouse Integrin beta 7 which is a 130 kDa glycoprotein belonging to the Ig superfamily.
Target	Mouse/Human Integrin $\beta 7$
Immunogen	TK1 cells
Isotype	IgG2a, κ
Source/Host	Rat
Species Reactivity	Human, Mouse
Clone	FIB504
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	IP, WB, FC
Molecular Weight	150 kDa
Format	0.2 μ M filtered liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free]

Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay
Related dilution buffer: CABT-LB04

Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	The FIB504 monoclonal antibody reacts with human and mouse Integrin beta 7 which is a 130 kDa glycoprotein belonging to the Ig superfamily. Integrin $\beta 7$ associates with integrin $\alpha 4$ (CD49d) to form integrin $\alpha 4\beta 7$ also known as LPAM-1 as well as integrin αE (CD103) to form integrin $\alpha E\beta 7$. Integrin $\alpha 4\beta 7$ signals when bound to its ligands VCAM-1 (CD106), MAdCAM-1 and fibronectin, while integrin $\alpha E\beta 7$ binds to E-cadherin (CD324). Integrin $\alpha 4\beta 7$ is expressed by peripheral lymphocytes, small subsets of thymocytes, and bone marrow progenitors while integrin $\alpha E\beta 7$ is expressed on intestinal intraepithelial lymphocytes, T regulatory cells, and a subset of CD8+ T cells in the lamina propria and lymph nodes. Integrin $\beta 7$ plays roles in the adhesion of immune cells to endothelial cells thereby mediating cell migration and homing during an inflammatory response. The FIB504 antibody has been shown to have blocking activity.
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Keywords	ITGB7;integrin, beta 7;integrin beta-7;integrin beta 7 subunit;gut homing receptor beta subunit;
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GENE INFORMATION

Official Symbol	integrin, beta 7
Synonyms	ITGB7; integrin, beta 7; integrin beta-7; integrin beta 7 subunit; gut homing receptor beta subunit;
References	Byrareddy, S. N., et al. (2015). "Species-specific differences in the expression and regulation of alpha4beta7 integrin in various nonhuman primates." J Immunol 194(12): 5968-5979. PubMed;