



# 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

<b>Product Overview</b>	The FIB504 monoclonal antibody reacts with human and mouse Integrin beta 7 which is a 130 kDa glycoprotein belonging to the Ig superfamily.
<b>Target</b>	Mouse/Human Integrin $\beta$ 7
<b>Immunogen</b>	TK1 cells
<b>Isotype</b>	IgG2a, $\kappa$
<b>Source/Host</b>	Rat
<b>Species Reactivity</b>	Human, Mouse
<b>Clone</b>	FIB504
<b>Purification</b>	Protein G purified. Purity>95%. Determined by SDS-PAGE
<b>Conjugate</b>	Functional Grade
<b>Applications</b>	IP, WB, FC
<b>Molecular Weight</b>	150 kDa
<b>Format</b>	0.2 $\mu$ M filtered liquid. Purified from tissue culture supernatant in an animal free facility
<b>Concentration</b>	Lot specific
<b>Size</b>	5 mg
<b>Buffer</b>	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

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

## BACKGROUND

<b>Introduction</b>	The FIB504 monoclonal antibody reacts with human and mouse Integrin beta 7 which is a 130 kDa glycoprotein belonging to the Ig superfamily. Integrin β7 associates with integrin α4 (CD49d) to form integrin α4β7 also known as LPAM-1 as well as integrin αE (CD103) to form integrin αEβ7. Integrin α4β7 signals when bound to its ligands VCAM-1 (CD106), MAdCAM-1 and fibronectin, while integrin αEβ7 binds to E-cadherin (CD324). Integrin α4β7 is expressed by peripheral lymphocytes, small subsets of thymocytes, and bone marrow progenitors while integrin αEβ7 is expressed on intestinal intraepithelial lymphocytes, T regulatory cells, and a subset of CD8+ T cells in the lamina propria and lymph nodes. Integrin β7 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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<b>Keywords</b>	ITGB7;integrin, beta 7;integrin beta-7;integrin beta 7 subunit;gut homing receptor beta subunit;
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## GENE INFORMATION

<b>Official Symbol</b>	integrin, beta 7
<b>Synonyms</b>	ITGB7; integrin, beta 7; integrin beta-7; integrin beta 7 subunit; gut homing receptor beta subunit;
<b>References</b>	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;