

Anti-Integrin beta 7 antibody [EP5948] - BSA and Azide free ab216688

Recombinant RabMAb

3 Images

Overview

Product name	Anti-Integrin beta 7 antibody [EP5948] - BSA and Azide free
Description	Rabbit monoclonal [EP5948] to Integrin beta 7 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IP, WB Unsuitable for: Flow Cyt, ICC/IF or IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: IM-9 cell lysate. IP: IM-9 whole cell lysate.
General notes	<p>ab216688 is the carrier-free version of ab137058.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP5948
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab216688 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 87 kDa.

Application notes Is unsuitable for Flow Cyt, ICC/IF or IHC-P.

Target

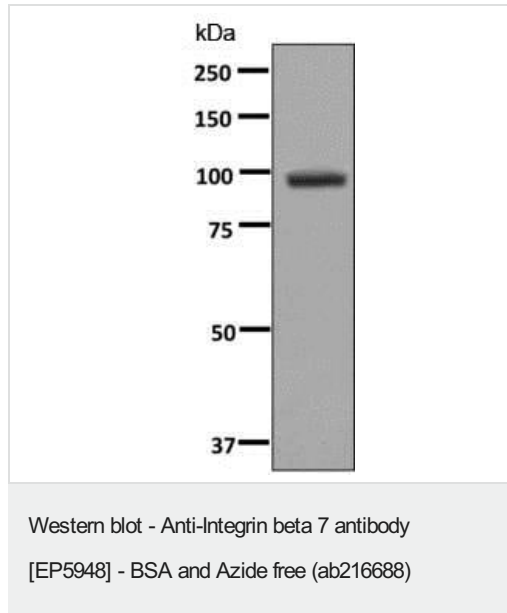
Function	Integrin alpha-4/beta-7 (Peyer patches-specific homing receptor LPAM-1) is an adhesion molecule that mediates lymphocyte migration and homing to gut-associated lymphoid tissue (GALT). Integrin alpha-4/beta-7 interacts with the cell surface adhesion molecules MADCAM1 which is normally expressed by the vascular endothelium of the gastrointestinal tract. Interacts also with VCAM1 and fibronectin, an extracellular matrix component. It recognizes one or more domains within the alternatively spliced CS-1 region of fibronectin. Interactions involves the tripeptide L-D-T in MADCAM1, and L-D-V in fibronectin. Binds to HIV-1 gp120, thereby allowing the virus to enter GALT, which is thought to be the major trigger of AIDS disease. Interaction would involve a tripeptide L-D-I in HIV-1 gp120. Integrin alpha-E/beta-7 (HML-1) is a receptor for E-cadherin.
Tissue specificity	Expressed in a variety of leukocyte lines.
Sequence similarities	Belongs to the integrin beta chain family. Contains 1 VWFA domain.
Domain	Domain I contains three cation-binding sites: the ligand-integrin-binding site (LIMBS), the metal

ion-dependent adhesion site (MIDAS), and the adjacent to MIDAS site (ADMIDAS). In the absence of a ligand or in calcium-dependent binding, only ADMIDAS is occupied. In magnesium-dependent binding all three sites bind metal ions. LIMBS positively modify ligand binding whereas ADMIDAS negatively modify ligand binding.

Cellular localization

Membrane.

Images



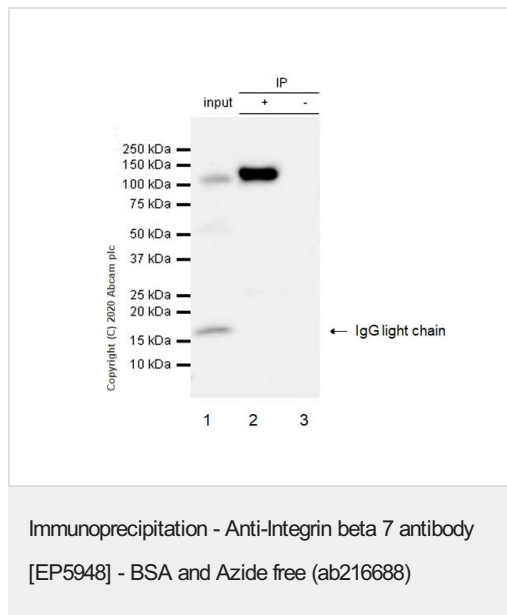
Anti-Integrin beta 7 antibody [EP5948] ([ab137058](#)) at 1/1000 dilution + IM-9 cell lysate at 10 µg

Secondary

HRP labeled Goat anti-Rabbit IgG at 1/2000 dilution

Predicted band size: 87 kDa

This data was developed using [ab137058](#), the same antibody clone in a different buffer formulation.



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purified [ab137058](#) at 1/50 dilution (2µg) immunoprecipitating Integrin beta 7 in IM-9 whole cell lysate.

Lane 1 (input): IM-9 (Human multiple myeloma B Lymphoblast) whole cell lysate 10µg

Lane 2 (+): [ab137058](#) + IM-9 whole cell lysate.

Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of [ab137058](#) in IM-9 whole cell lysate.

VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm/TBST.

Observed band size: 100-120 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Integrin beta 7 antibody [EP5948] - BSA and Azide free (ab216688)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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