abcam

Product datasheet

Anti-CD6/T12 antibody [EPR4057] - BSA and Azide free ab247795

Recombinant RabMAb

6 Images

Overview

Product name	Anti-CD6/T12 antibody [EPR4057] - BSA and Azide free
Description	Rabbit monoclonal [EPR4057] to CD6/T12 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), IP, WB, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Jurkat, HuT-78, and Human peripheral blood mononuclear cells whole cell lysates. Human tonsil tissue lysate; IP: Human peripheral blood mononuclear cells whole cell lysate; ICC/IF: Human peripheral blood mononuclear cells; IHC-P: Human tonsil and Human lymphocytes infiltrating colon tissues; Flow Cyt (intra): HuT-78 cells.
General notes	ab247795 is the carrier-free version of **ab109217**. 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. 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. 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. 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. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit

monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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	EPR4057
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab247795 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

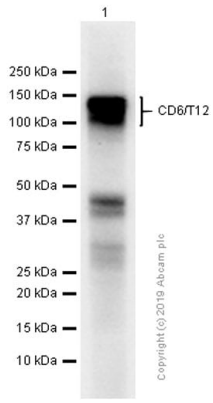
Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 90-130 kDa (predicted molecular weight: 72 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.
ICC/IF		Use at an assay dependent concentration.

Target

Function	Involved in cell adhesion. Binds to CD166.
Tissue specificity	Expressed by thymocytes, mature T-cells, a subset of B-cells known as B-1 cells, and by some cells in the brain.
Sequence similarities	Contains 3 SRCR domains.
Post-translational	After T-cell activation, becomes hyperphosphorylated on Ser and Thr residues and phosphorylated on Tyr residues.

modifications	Contains intrachain disulfide bond(s).
Cellular localization	Membrane.

Images



Western blot - Anti-CD6/T12 antibody [EPR4057] - BSA and Azide free (ab247795)

Anti-CD6/T12 antibody [EPR4057] (**ab109217**) at 1/5000 dilution (Purified) + HuT-78 (Human Sezary syndrome cutaneous T lymphocyte) whole cell lysate at 15 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

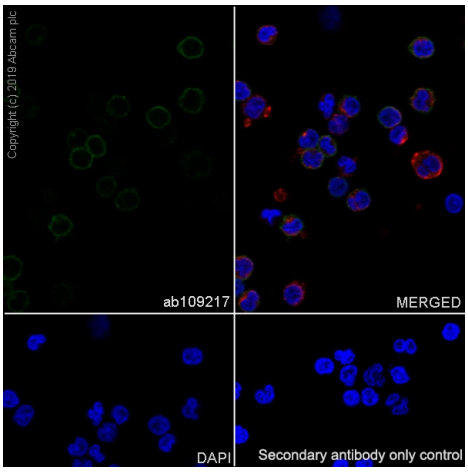
Predicted band size: 72 kDa

Observed band size: 105-130 kDa

The molecular weight of CD6 ranges from 105 to 130 kDa depending on its degree of phosphorylation (PMID: 17601777).

Blocking/Diluting buffer: 5% NFDM/TBST

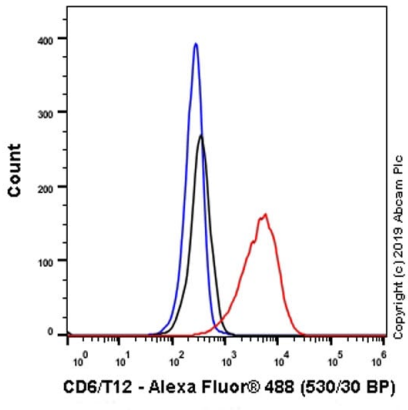
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109217**).



Immunocytochemistry/ Immunofluorescence - Anti-CD6/T12 antibody [EPR4057] - BSA and Azide free (ab247795)

Immunocytochemistry/ Immunofluorescence analysis of Human PBMC (Human primary peripheral blood mononuclear cell) cells labeling CD6/T12 with Purified **ab109217** at 1:50 dilution (2.3 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

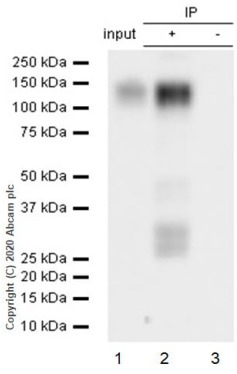
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109217**).



Flow Cytometry (Intracellular) - Anti-CD6/T12 antibody [EPR4057] - BSA and Azide free (ab247795)

Intracellular Flow Cytometry analysis of HuT-78 (Human Sezary syndrome cutaneous T lymphocyte) cells labeling CD6/T12 with Purified **ab109217** at 1/20 dilution (10µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).

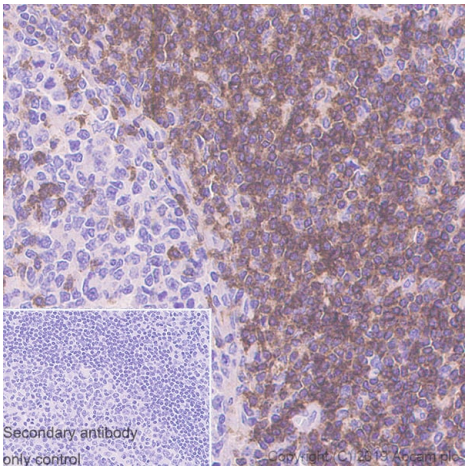
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109217**).



Immunoprecipitation - Anti-CD6/T12 antibody [EPR4057] - BSA and Azide free (ab247795)

Purified **ab109217** at 1:20 dilution (0.6µg) immunoprecipitating CD6/T12 in HuT-78 whole cell lysate.
Lane 1 (input): HuT-78 (Human Sezary syndrome cutaneous T lymphocyte) whole cell lysate 10µg
Lane 2 (+): **ab109217** + HuT-78 whole cell lysate.
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of **ab109217** in HuT-78 whole cell lysate.
Blocking Buffer and concentration: 5% NFDM/TBST.
Diluting buffer and concentration: 5% NFDM/TBST.
Observed band size: 105-130 kDa

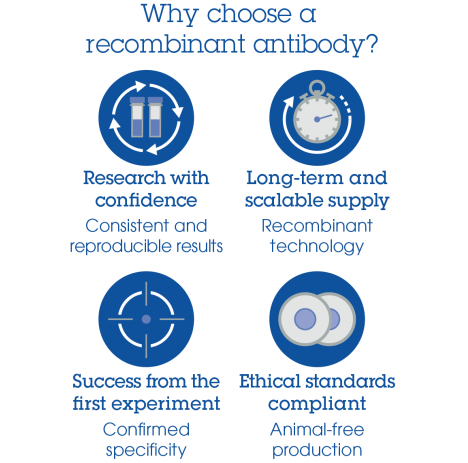
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109217**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD6/T12 antibody [EPR4057] - BSA and Azide free (ab247795)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue sections labeling CD6/T12 with purified **ab109217** at 1/1000 dilution (0.115 µg/mL). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109217**).



Anti-CD6/T12 antibody [EPR4057] - BSA and Azide free (ab247795)

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