abcam

Product datasheet

Anti-CXCL7/PBP antibody [EPR20036] - BSA and Azide free ab251455

Recombinant RabMAb

7 Images

Overview

Product name	Anti-CXCL7/PBP antibody [EPR20036] - BSA and Azide free
Description	Rabbit monoclonal [EPR20036] to CXCL7/PBP - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, IHC-Fr, IHC-P
Species reactivity	**Reacts with:** Mouse
Immunogen	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
General notes	ab251455 is the carrier-free version of **ab206406**. 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**.

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
Clonality	Monoclonal
Clone number	EPR20036
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab251455 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
WB		Use at an assay dependent concentration. Detects a band of approximately 7 kDa (predicted molecular weight: 14 kDa).
IP		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration. Antigen retrieval: Heated citrate solution (10mM citrate PH 6.0 + 0.05% Tween-20).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Function	LA-PF4 stimulates DNA synthesis, mitosis, glycolysis, intracellular cAMP accumulation, prostaglandin E2 secretion, and synthesis of hyaluronic acid and sulfated glycosaminoglycan. It also stimulates the formation and secretion of plasminogen activator by human synovial cells. NAP-2 is a ligand for CXCR1 and CXCR2, and NAP-2, NAP-2(73), NAP-2(74), NAP-2(1-66), and most potent NAP-2(1-63) are chemoattractants and activators for neutrophils. TC-1 and TC-2 are antibacterial proteins, in vitro released from activated platelet alpha-granules. CTAP-III(1-81) is more potent than CTAP-III desensitize chemokine-induced neutrophil activation.
Sequence similarities	Belongs to the intercrine alpha (chemokine CxC) family.
Post-translational modifications	Proteolytic removal of residues 1-9 produces the active peptide connective tissue-activating peptide III (CTAP-III) (low-affinity platelet factor IV (LA-PF4)). Proteolytic removal of residues 1-13 produces the active peptide beta-thromboglobulin, which is released from platelets along with platelet factor 4 and platelet-derived growth factor. NAP-2(1-66) is produced by proteolytical processing, probably after secretion by leukocytes other than neutrophils. NAP-2(73) and NAP-2(74) seem not be produced by proteolytical processing of secreted

	precursors but are released in an active form from platelets.
Cellular localization	Secreted.

Images

Western blot - Anti-CXCL7/PBP antibody [EPR20036] - BSA and Azide free (ab251455)

Anti-CXCL7/PBP antibody [EPR20036] (**ab206406**) at 1/5000 dilution + Mouse CXCL7/PBP active protein at 0.01 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

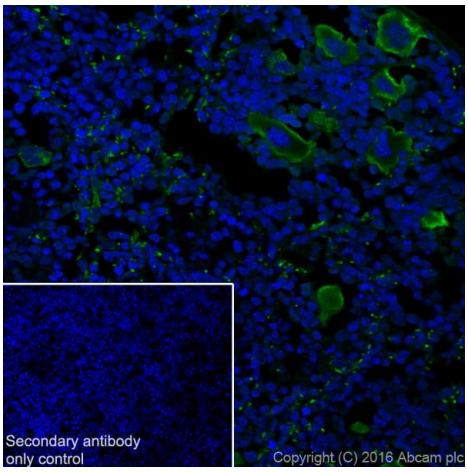
Predicted band size: 14 kDa

Observed band size: 7 kDa

Exposure time: 8 seconds

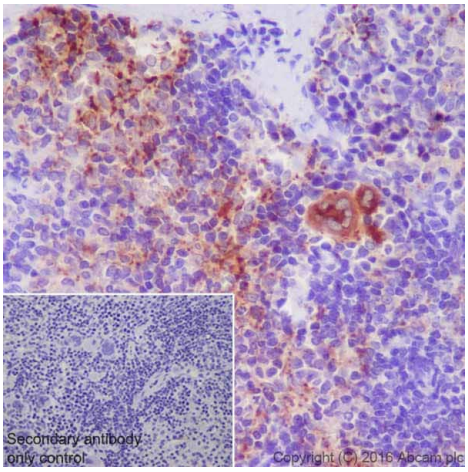
This data was developed using **ab206406**, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.



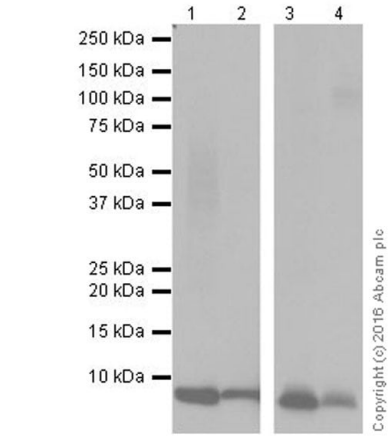
Immunohistochemistry (Frozen sections) - Anti-CXCL7/PBP antibody [EPR20036] - BSA and Azide free (ab251455)

This data was developed using **ab206406**, the same antibody clone in a different buffer formulation.Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized frozen Mouse spleen tissue labeling CXCL7/PBP with **ab206406** at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Cytoplasmic staining on megakaryocytes and platelets of mouse spleen was observed. The nuclear counterstain is DAPI (blue). Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CXCL7/PBP antibody [EPR20036] - BSA and Azide free (ab251455)

This data was developed using **ab206406**, the same antibody clone in a different buffer formulation.Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling CXCL7/PBP with **ab206406** at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Cytoplasmic staining on megakaryocytes and platelets of mouse spleen is observed [PMID:16391012]. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-CXCL7/PBP antibody [EPR20036] - BSA and Azide free (ab251455)

Lanes 1-2 : Anti-CXCL7/PBP antibody [EPR20036] (**ab206406**) at 1/2000 dilution
Lanes 3-4 : Anti-CXCL7/PBP antibody [EPR20036] (**ab206406**) at 1/10000 dilution

Lane 1 : Mouse spleen tissue lysate
Lane 2 : Mouse plasma
Lane 3 : Mouse platelet lysate
Lane 4 : Mouse serum

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

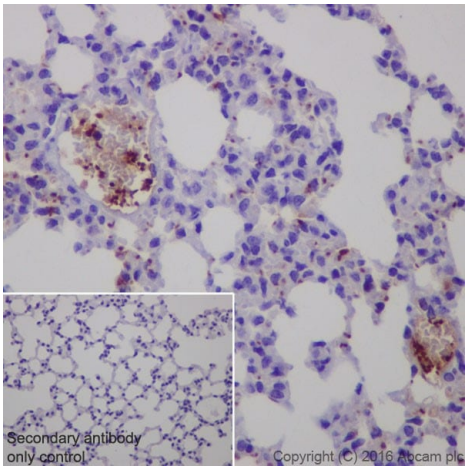
Predicted band size: 14 kDa
Observed band size: 7 kDa

This data was developed using **ab206406**, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.

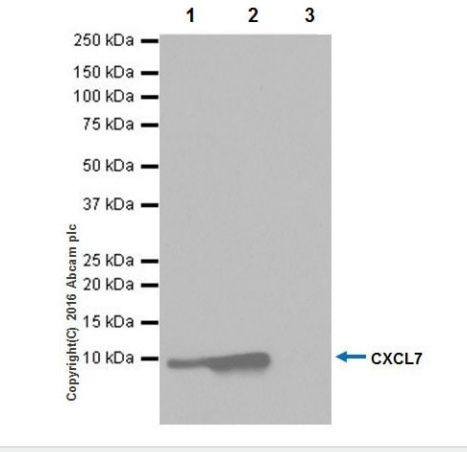
Exposure times: Lanes 1-2: 4 seconds; Lanes 3-4: 1 second.

The molecular weight is consistent with what has been described in the literature: PMID: 14673015.



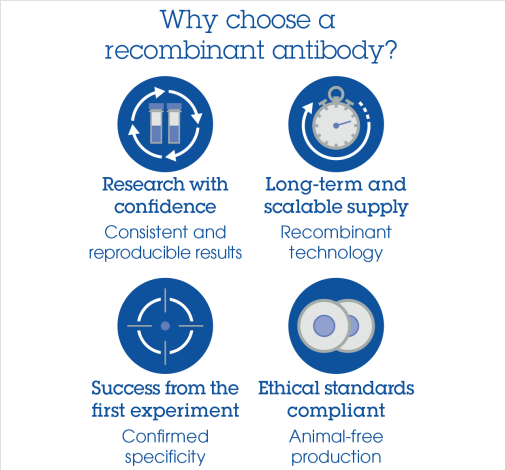
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CXCL7/PBP antibody [EPR20036] - BSA and Azide free (ab251455)

This data was developed using **ab206406**, the same antibody clone in a different buffer formulation.Immunohistochemical analysis of paraffin-embedded mouse lung tissue labeling CXCL7/PBP with **ab206406** at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Cytoplasmic staining on platelets of mouse lung is observed. Counter stained with Hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/500 dilution. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-CXCL7/PBP antibody [EPR20036] - BSA and Azide free (ab251455)

This data was developed using **ab206406**, the same antibody clone in a different buffer formulation.CXCL7/PBP was immunoprecipitated from 0.35 mg of Mouse spleen lysate with **ab206406** at 1/40 dilution. Western blot was performed from the immunoprecipitate using **ab206406** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution. Lane 1: Mouse spleen lysate, 10 µg (Input). Lane 2: **ab206406** IP in Mouse spleen lysate. Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab206406** in Mouse spleen lysate. Blocking and dilution buffer and concentration: 5% NFDM/TBST. Exposure time: 1 second.



Anti-CXCL7/PBP antibody [EPR20036] - BSA and Azide free (ab251455)

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