

Product datasheet

Anti-Sp7 / Osterix antibody [EPR21034] - BSA and Azide free ab227820

Recombinant RabMAb

★★★★☆ 1 Abreviews 1 References 6 Images

Overview

Product name	Anti-Sp7 / Osterix antibody [EPR21034] - BSA and Azide free
Description	Rabbit monoclonal [EPR21034] to Sp7 / Osterix - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, IHC-Fr, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC: Mouse E14.5 rib tissue..
General notes	<p>ab227820 is the carrier-free version of ab209484.</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>

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	EPR21034
Isotype	IgG

Applications

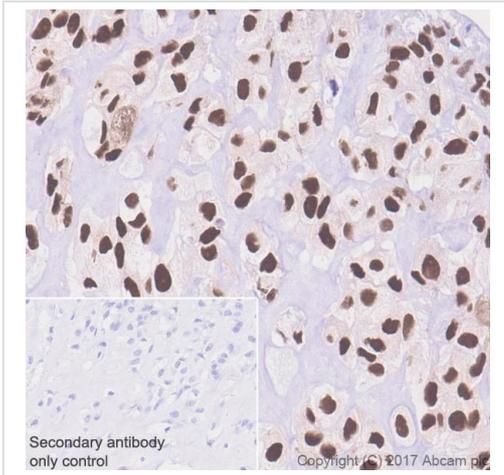
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab227820 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 45 ,47 kDa (predicted molecular weight: 45 kDa).
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.
IHC-Fr		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		Use at an assay dependent concentration.

Target

Function	Transcriptional activator essential for osteoblast differentiation. Binds to SP1 and EKLF consensus sequences and to other G/C-rich sequences.
Tissue specificity	Restricted to bone-derived cell.
Sequence similarities	Belongs to the Sp1 C2H2-type zinc-finger protein family. Contains 3 C2H2-type zinc fingers.
Cellular localization	Nucleus.

Images



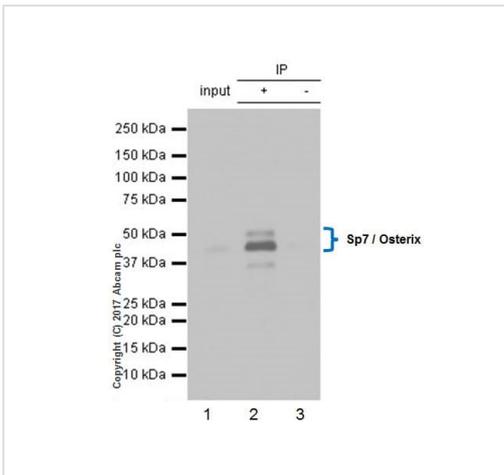
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sp7 / Osterix antibody [EPR21034] - BSA and Azide free (ab227820)

Immunohistochemical analysis of paraffin-embedded human chondrosarcoma tissue labeling Sp7 / Osterix with [ab209484](#) at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Nuclear staining on tumor cells of human chondrosarcoma 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) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab209484](#)).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-Sp7 / Osterix antibody [EPR21034] - BSA and Azide free (ab227820)

Sp7 / Osterix was immunoprecipitated from 0.35mg of Saos-2 (human osteosarcoma cell line) whole cell lysate with [ab209484](#) at 1/30 dilution. Western blot was performed from the immunoprecipitate using [ab209484](#) at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10000 dilution.

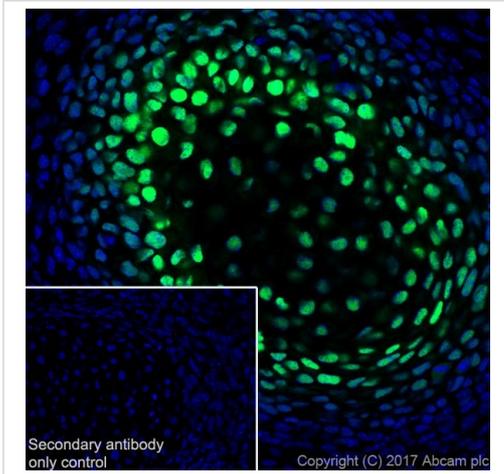
Lane 1: Saos-2 whole cell lysate 10ug (Input).

Lane 2: [ab209484](#) IP in Saos-2 whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab190908](#) in Saos-2 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST. Exposure time: 8 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab209484](#)).

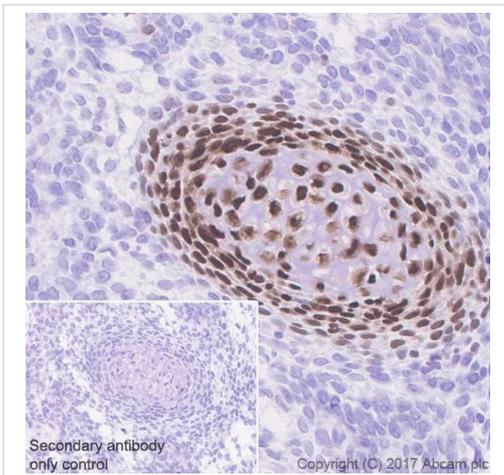


Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized mouse E14.5 developing humerus tissue labeling Sp7 / Osterix with [ab209484](#) at 1/500 dilution, followed by AlexaFluor® 488 Goat anti-Rabbit ([ab150077](#)) at 1/1000 dilution. Positive staining on the mouse embryo E14.5 developing humerus (PMID:27134141) is observed. Counter stained with DAPI.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is AlexaFluor® 488 Goat anti-Rabbit ([ab150077](#)) at 1/1000 dilution.

Immunohistochemistry (Frozen sections) - Anti-Sp7 / Osterix antibody [EPR21034] - BSA and Azide free ([ab227820](#))

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab209484](#)).



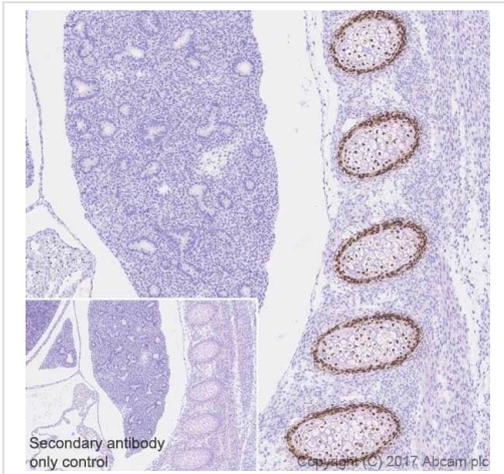
Immunohistochemical analysis of paraffin-embedded rat E14.5 rib tissue labeling Sp7 / Osterix with [ab209484](#) at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Nuclear staining on osteoblasts and chondrocytes of rat E14.5 rib (PMID: 17579353; PMID: 25977369) is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sp7 / Osterix antibody [EPR21034] - BSA and Azide free ([ab227820](#))

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab209484](#)).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sp7 / Osterix antibody [EPR21034] - BSA and Azide free (ab227820)

Immunohistochemical analysis of paraffin-embedded mouse E14.5 rib tissue labeling Sp7 / Osterix with [ab209484](#) at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Nuclear staining on osteoblasts and chondrocytes of mouse E14.5 rib (PMID: 17579353; PMID: 25977369) 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) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab209484](#)).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-Sp7 / Osterix antibody [EPR21034] - BSA and Azide free ([ab227820](#))

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

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