abcam

Product datasheet

Anti-Sp7 / Osterix antibody - ChIP Grade ab22552

18 Abreviews 103 References 画像数 8

製品の概要

製品名	Anti-Sp7 / Osterix antibody - ChIP Grade
製品の詳細	Rabbit polyclonal to Sp7 / Osterix - ChIP Grade
由来種	Rabbit
アプリケーション	**適用あり:** IHC-Fr, ChIP, ICC/IF, WB, IHC-P, IP, IHC-FoFr
種交差性	**交差種:** Mouse, Rat, Human
免疫原	Synthetic peptide conjugated to KLH derived from within residues 400 to the C-terminus of Mouse Sp7/ Osterix. Immunogen **の所有権に関して** (Peptide available as ab24390.)
ポジティブ・コントロール	This antibody gave a positive signal for Immunohistochemistry (FFPE) in Rat bone.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
精製度	Immunogen affinity purified
ポリ/モノ	**ポリクローナル**
アイソタイプ	IgG

アプリケーション

Our Abpromise guarantee covers the use of **ab22552** in the following tested applications.

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

アプリケーション	Abreviews	特記事項
IHC-Fr		1/100.
ChIP		Use at an assay dependent concentration. PubMed: 20682789

アプリケーション	Abreviews	特記事項
ICC/IF	★★★★☆	Use at an assay dependent concentration. PubMed: 20682789
WB	★★★★★	Use at an assay dependent concentration. Predicted molecular weight: 46 kDa. PubMed: 17510056
IHC-P	★★★★★	1/100 - 1/500. Antigen retrieval is not essential but may optimise staining.
IP	★★★★★	Use at an assay dependent concentration.
IHC-FoFr		Use at an assay dependent concentration. PubMed: 20410296

ターゲット情報

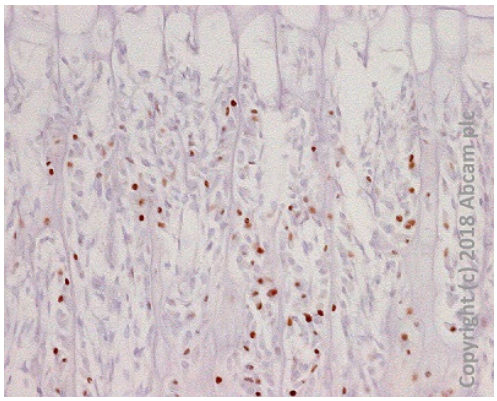
機能 Transcriptional activator essential for osteoblast differentiation. Binds to SP1 and EKLF consensus sequences and to other G/C-rich sequences.

組織特異性 Restricted to bone-derived cell.

配列類似性 Belongs to the Sp1 C2H2-type zinc-finger protein family.
Contains 3 C2H2-type zinc fingers.

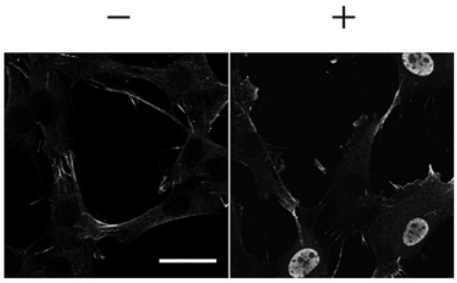
細胞内局在 Nucleus.

画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sp7 / Osterix antibody - ChIP Grade (ab22552)
This image is courtesy of an anonymous collaborator

ab22552 staining Osterix in rat femur sections by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Tissue was perfusion fixed with 4% PFA in 0.1M phosphate buffer (pH 7.4) via the left ventricle and decalcified in 10% EDTA. Samples were incubated with primary antibody (1/2000) for 12 hours at 4°C. Histofine simple stain rat MAX PO was used as the secondary antibody.

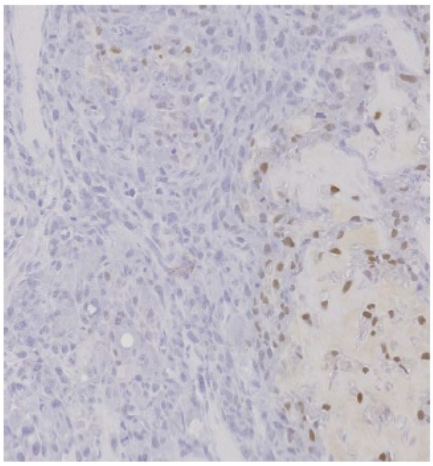


Immunocytochemistry/ Immunofluorescence - Anti-Sp7 / Osterix antibody - ChIP Grade (ab22552)

Image from Ortuño MJ et al, J Biol Chem. 2010 Oct 15;285(42):31985-94. Epub 2010 Aug 3, Fig 1.

ab22552 staining Sp7/ Osterix in C2C12 cells by Immunocytochemistry/ Immunofluorescence.
Cells were stained with ab22552 at a 1/500 dilution followed by goat anti-rabbit IgG conjugated with Alexa Fluor 488 at a 1/400 dilution. Labeling was detected using a Leica TCS SL inverted laser scanning confocal microscope.

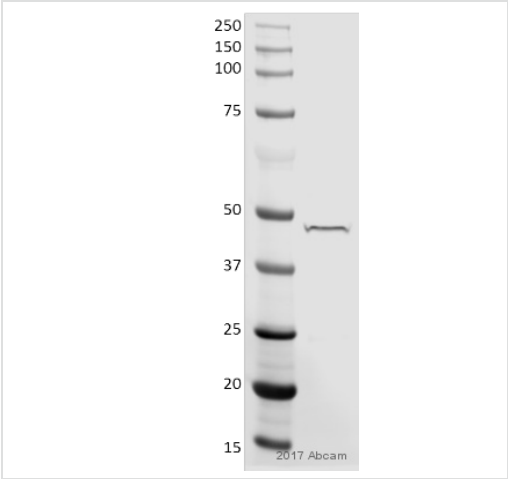
The subcellular localization of Osterx in C2C12 cells was analyzed by immunofluorescence with ab22552 in cells either transiently transfected with short Osterix construct or incubated in medium without serum. Scale bar 10 µm.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sp7 / Osterix antibody - ChIP Grade (ab22552)

This image is courtesy of Jérôme AMIAUD, Laboratoire de Physiopathologie de la Résorption Osseuse et Thérapie des Tumeurs Osseuses Primitives. We thank them for their important contribution to the validation of ab22552.

Immunohistochemical analysis of paraffin embedded mouse osteosarcoma tissue labeling Sp7/Osterix with ab22552 at 1/1000 (overnight at 4°C). Fixed 48h in 4% formol. Decalcified in 4% EDTA and 0.2% PFA pH7.4 before inclusion in paraffin. Biotin conjugated secondary 1h RT. Amplification StreptABC, substrate DAB.



Western blot - Anti-Sp7 / Osterix antibody - ChIP Grade (ab22552)

All lanes : Anti-Sp7 / Osterix antibody - ChIP Grade (ab22552) at 1/500 dilution

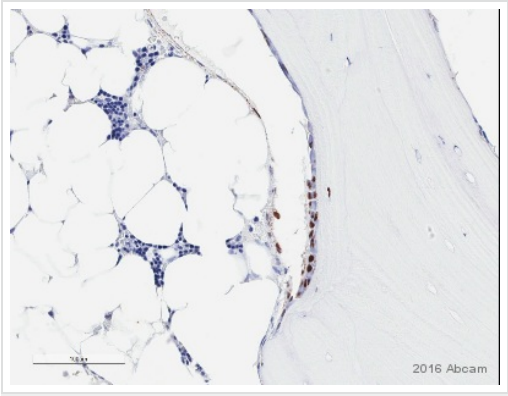
Lane 1 : Protein Ladder
Lane 2 : SAOS cells at 20 µg with Milk, 2 hours, 21°C at 5 %

Secondary
All lanes : Polyclonal Goat anti Rabbit at 1/10000 dilution

Performed under reducing conditions.

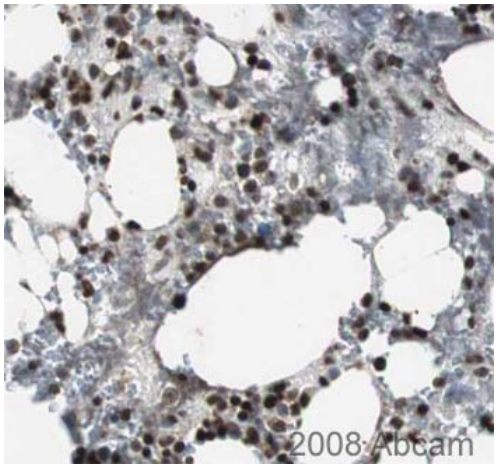
Predicted band size: 46 kDa

Exposure time: 5 minutes



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sp7 / Osterix antibody - ChIP Grade (ab22552)
Image is courtesy of Dr Faye Doherty

ab22552 staining Osterix in Human bone marrow tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with 10% NBF and blocked with Serum Free Protein Block (Dako) for 5 minutes at 24°C; antigen retrieval was by heat mediation in a citrate buffer. Samples were incubated with primary antibody (1/1000) for 30 minutes at 24°C. An undiluted HRP-conjugated Goat anti-rabbit polyclonal was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sp7 / Osterix antibody - ChIP Grade (ab22552)

Image courtesy of Human Protein Atlas

ab22552 staining Sp7 / osterix in human bone marrow tissue. Paraffin embedded human bone marrow tissue was incubated with ab22552 (1/25 dilution) for 30 mins at room temperature. Antigen retrieval was performed by heat induction in citrate buffer pH 6.

ab22552 was tested in a tissue microarray (TMA) containing a wide range of normal and cancer tissues as well as a cell microarray consisting of a range of commonly used, well characterised human cell lines. Further results for this antibody can be found at www.proteinatlas.org

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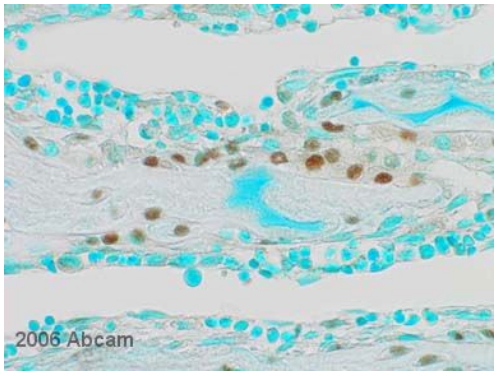
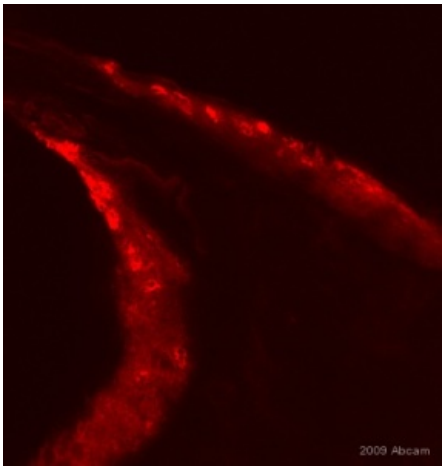


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sp7 / Osterix antibody - ChIP Grade (ab22552)

This image is courtesy of an anonymous Abreview

The image shows Osterix staining in rat bone tibiae using ab22552 at 1/100.



Immunohistochemistry (Frozen sections) - Anti-Sp7 / Osterix antibody - ChIP Grade (ab22552)

This image is courtesy of an anonymous Abreview

ab22552 staining Sp7 / Osterix in 21 days old rat developing long bone tissue section by Immunohistochemistry (Frozen sections). Tissue samples were fixed with methanol and blocking with 20% serum at 22^0C for 30 minutes was performed. The sample was incubated with primary antibody (1/100) for 3 hours at 22^0C. A Cy3®-conjugated Goat polyclonal to rabbit IgG was used as secondary antibody at 1/1000 dilution.

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