

Product datasheet

Anti-S100P antibody [EPR6143] ab133554

Recombinant RabMAb

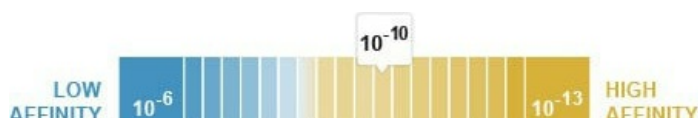
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Overview

Product name	Anti-S100P antibody [EPR6143]
Description	Rabbit monoclonal [EPR6143] to S100P
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF, IP, Flow Cyt (Intra)
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human S100P aa 50 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: P25815
Positive control	WB: SW480 and BxPC-3 cell lysates and human placenta tissue lysate. IHC-P: Human pancreatic adenocarcinoma and placenta tissues. ICC/IF: SW480 cells. IP: SW480 cell lysate.
General notes	<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> <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.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K _D)	K _D = 3.16 x 10 ⁻¹⁰ M





[Learn more about K_D](#)

Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR6143
Isotype	IgG

Applications

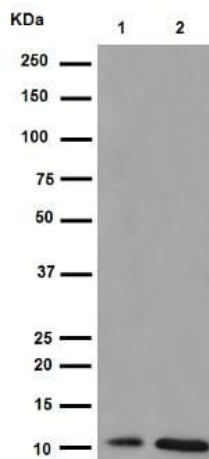
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab133554 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 10 kDa (predicted molecular weight: 10 kDa). For unpurified use at 1/200.
IHC-P	★★★★★ (1)	1/1500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See IHC antigen retrieval protocols . For unpurified use at 1/150 - 1/100.
ICC/IF		1/400. For unpurified use at 1/40.
IP		1/20. For unpurified use at 1/80.
Flow Cyt (Intra)		Use at an assay dependent concentration. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target

Tissue specificity	Up-regulated in various pancreatic ductal adenocarcinomas and pancreatic intraepithelial neoplasias.
Sequence similarities	Belongs to the S-100 family. Contains 2 EF-hand domains.
Cellular localization	Nucleus. Cytoplasm. Colocalizes with S100PBP in the nucleus.

Images



Western blot - Anti-S100P antibody [EPR6143]
(ab133554)

All lanes : Anti-S100P antibody [EPR6143] (ab133554) at 1/200 dilution (unpurified)

Lane 1 : SW480 cell lysate

Lane 2 : BxPC-3 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

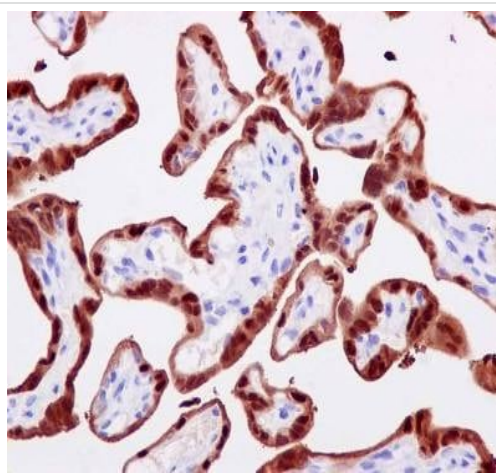
All lanes : Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 10 kDa

Observed band size: 10 kDa

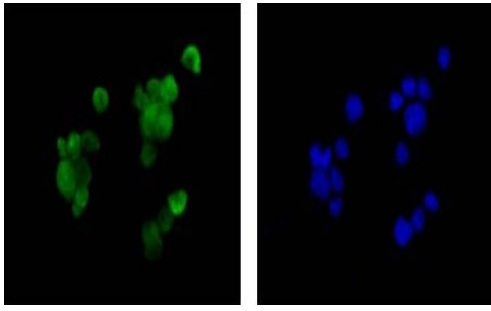
Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM/TBST.



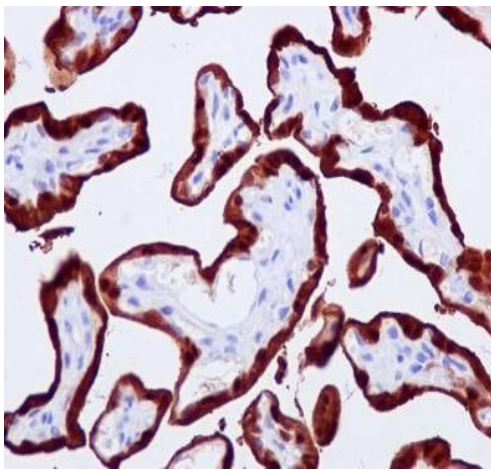
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100P antibody [EPR6143] (ab133554)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human placenta tissue labelling S100P with unpurified ab133554 at 1/100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Counterstained with hematoxylin.



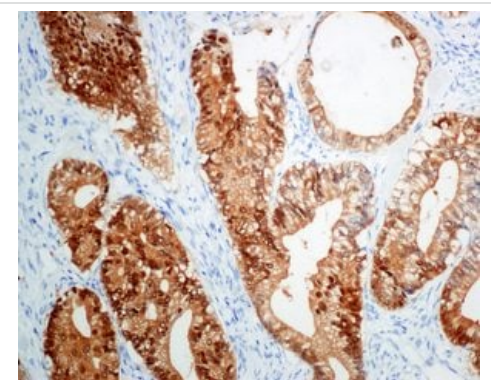
Immunocytochemistry/ Immunofluorescence - Anti-S100P antibody [EPR6143] (ab133554)

Immunocytochemistry/Immunofluorescence analysis of SW480 cells labelling S100P (green) with purified ab133554 at 1/40. Cells were fixed with 4% paraformaldehyde. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/200) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100P antibody [EPR6143] (ab133554)

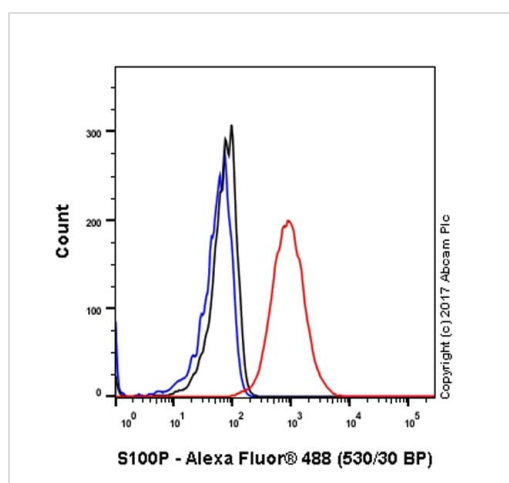
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human placenta tissue labelling S100P with purified ab133554 at 1/1500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-S100P antibody [EPR6143] (ab133554)

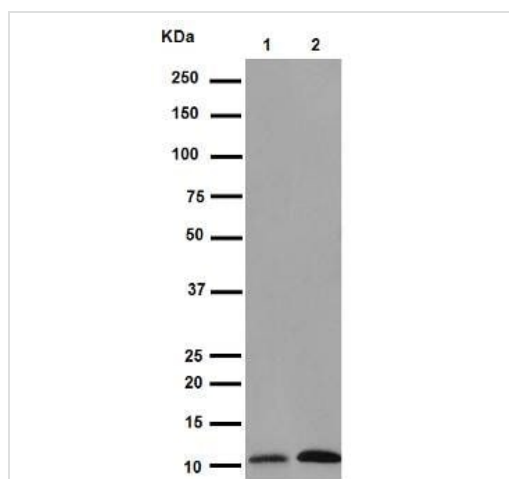
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human pancreatic adenocarcinoma tissue labelling S100P with unpurified ab133554 at 1/250.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-S100P antibody
[EPR6143] (ab133554)

Intracellular Flow Cytometry analysis of BxPC-3 (human Pancreas adenocarcinoma) cells labeling S100P with purified ab133554 at 1/800 dilution (1ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.



Western blot - Anti-S100P antibody [EPR6143]
(ab133554)

All lanes : Anti-S100P antibody [EPR6143] (ab133554) at 1/1500 dilution (purified)

Lane 1 : SW480 cell lysate

Lane 2 : BxPC-3 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

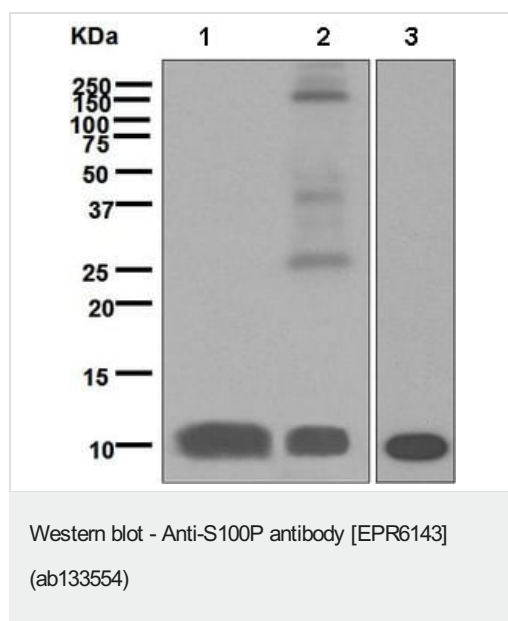
All lanes : Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 10 kDa

Observed band size: 10 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM/TBST.



All lanes : Anti-S100P antibody [EPR6143] (ab133554) at 1/1000 dilution (unpurified)

Lane 1 : SW480 cell lysate

Lane 2 : Human placenta cell lysate

Lane 3 : BxPC-3 cell lysate

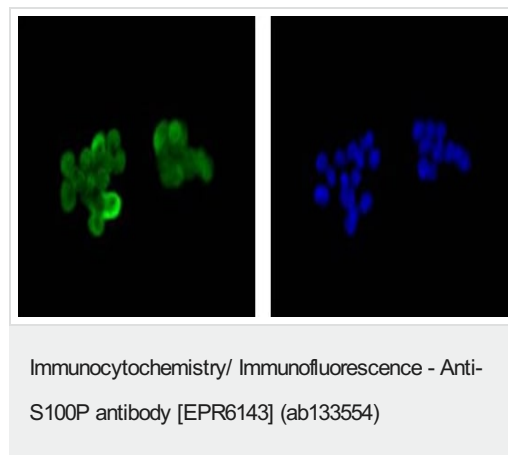
Lysates/proteins at 10 µg per lane.

Secondary

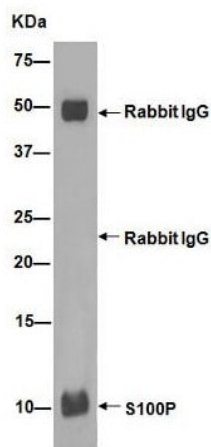
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 10 kDa

Observed band size: 10 kDa



Immunocytochemistry/Immunofluorescence analysis of SW480 cells labelling S100P (green) with purified ab133554 at 1/400. Cells were fixed with 4% paraformaldehyde. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/200) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain.

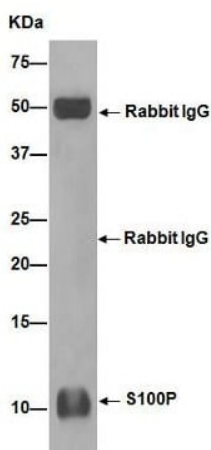


Immunoprecipitation - Anti-S100P antibody
[EPR6143] (ab133554)

ab133554 (unpurified) at 1/20 immunoprecipitating S100P in SW480 cells. For western blotting, a peroxidase-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/1000).

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.

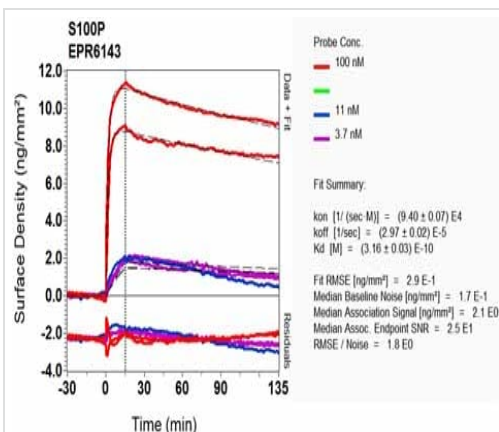


Immunoprecipitation - Anti-S100P antibody
[EPR6143] (ab133554)

ab133554 (purified) at 1/80 immunoprecipitating S100P in SW480 cells. For western blotting, a peroxidase-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/1000).

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



SPR Scanning - Anti-S100P antibody [EPR6143]
(ab133554)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

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-S100P antibody [EPR6143] (ab133554)

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

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