

Product datasheet

Anti-Bone Sialoprotein antibody ab33022

3 References 2 Images

Overview

Product name	Anti-Bone Sialoprotein antibody
Description	Rabbit polyclonal to Bone Sialoprotein
Host species	Rabbit
Tested applications	Suitable for: ELISA, WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	A region within synthetic peptide: SATTLGYGED ATPGTGYTGL AAIQLPKKAG DITNKATKEK ESDEEEEEEE, corresponding to N terminal amino acids 108-157 of Human Bone Sialoprotein Run BLAST with ExPASy Run BLAST with NCBI
Positive control	HepG2 whole cell lysate (ab7900).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 2% Sucrose, PBS
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab33022** in the following tested applications.

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

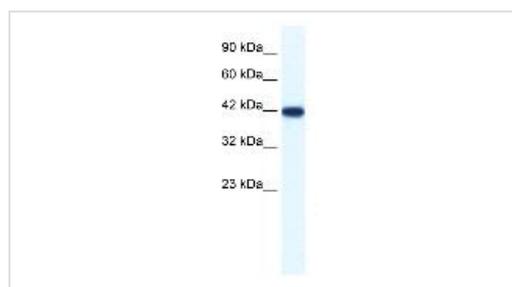
Application	Abreviews	Notes
ELISA		1/62500.
WB		Use a concentration of 1.25 µg/ml. Detects a band of approximately 42 kDa (predicted molecular weight: 35 kDa). Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function	Binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction. Promotes Arg-Gly-Asp-dependent cell attachment.
Post-translational modifications	N-glycosylated; glycans consist of sialated and core-fucosylated bi-, tri- and tetraantennary chains. O-glycosylated at eight sites; mucin-type glycans contain Gal, GlcNAc, GalNAc and terminal NeuAc. Sulfated on either Tyr-313 or Tyr-314.
Cellular localization	Secreted.

Images



Western blot - Anti-Bone Sialoprotein antibody (ab33022)

Anti-Bone Sialoprotein antibody (ab33022) at 1.25 µg/ml + HepG2 cell lysate

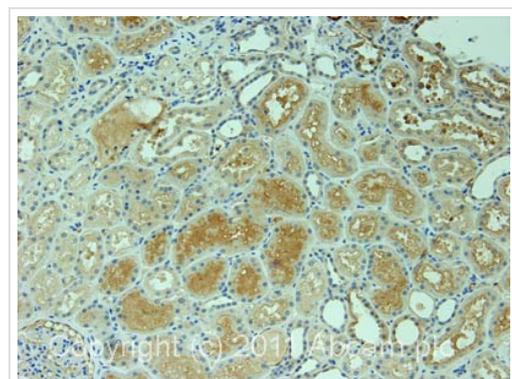
Secondary

HRP conjugated anti Rabbit IgG at 1/50000 dilution

Predicted band size: 35 kDa

Observed band size: 42 kDa

[why is the actual band size different from the predicted?](#)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bone Sialoprotein antibody (ab33022)

IHC image of ab33022 staining in normal human kidney formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab33022, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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