

Product datasheet

Anti-SOS1 antibody ab111298

[2 Images](#)

Overview

Product name	Anti-SOS1 antibody
Description	Goat polyclonal to SOS1
Host species	Goat
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat
Immunogen	Synthetic peptide conjugated to KLH, from internal sequence amino acids of Human SOS1.
Positive control	Human Liver and Human Placenta tissues.

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 long term.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
Purity	Protein G purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab111298** 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
IHC-P		Use a concentration of 3.75 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function

Promotes the exchange of Ras-bound GDP by GTP.

Tissue specificity

Expressed in gingival tissues.

Involvement in disease

Defects in *SOS1* are the cause of gingival fibromatosis 1 (GGF1) [MIM:135300]; also known as GINGF1. Gingival fibromatosis is a rare overgrowth condition characterized by a benign, slowly progressive, nonhemorrhagic, fibrous enlargement of maxillary and mandibular keratinized gingiva. GGF1 is usually transmitted as an autosomal dominant trait, although sporadic cases are common.

Defects in *SOS1* are the cause of Noonan syndrome type 4 (NS4) [MIM:610733]. NS4 is an autosomal dominant disorder characterized by dysmorphic facial features, short stature, hypertelorism, cardiac anomalies, deafness, motor delay, and a bleeding diathesis. It is a genetically heterogeneous and relatively common syndrome, with an estimated incidence of 1 in 1000-2500 live births. Rarely, NS4 is associated with juvenile myelomonocytic leukemia (JMML). *SOS1* mutations engender a high prevalence of pulmonary valve disease; atrial septal defects are less common.

Sequence similarities

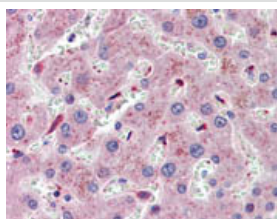
Contains 1 DH (DBL-homology) domain.

Contains 1 N-terminal Ras-GEF domain.

Contains 1 PH domain.

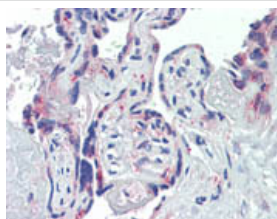
Contains 1 Ras-GEF domain.

Images



ab111298, at 3.75µg/ml, staining SOS1 in formalin-fixed, paraffin-embedded Human Liver tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOS1 antibody (ab111298)



ab111298, at 3.75µg/ml, staining SOS1 in formalin-fixed, paraffin-embedded Human Placenta tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOS1 antibody (ab111298)

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