abcam

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.

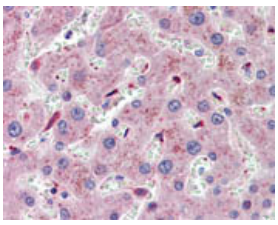
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

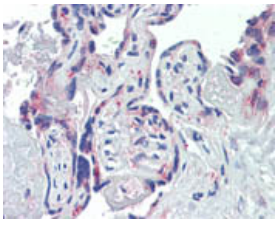
Function	Promotes the exchange of Ras-bound GDP by GTP.
Tissue specificity	Expressed in gingival tissues.
Involvement in disease	Defects in SOS1 are the cause of gingival fibromatosis 1 (GGF1) [MIM:135300]; also known as GINGF1. Gingival fibromatosis is a rare overgrowth condition characterized by a 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



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

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



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

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

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