abcam

Product datasheet

Anti-SOS1 antibody [EPR7480] ab140621

Recombinant RabMAb

2 References 8 Images

Overview

Product name	Anti-SOS1 antibody [EPR7480]
Description	Rabbit monoclonal [EPR7480] to SOS1
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF **Unsuitable for:** Flow Cyt or IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment corresponding to amino acids in Human SOS1 (UniProt ID: Q07889).
Positive control	Raji, K562, HeLa and THP1 cell lysates; Human ovarian carcinoma tissue; Raji cells.
General notes	Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents. This product is a recombinant rabbit monoclonal antibody.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20ºC.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR7480
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab140621** 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. Predicted molecular weight: 152 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/250 - 1/500.

Application notes Is unsuitable for Flow Cyt or IP.

Target

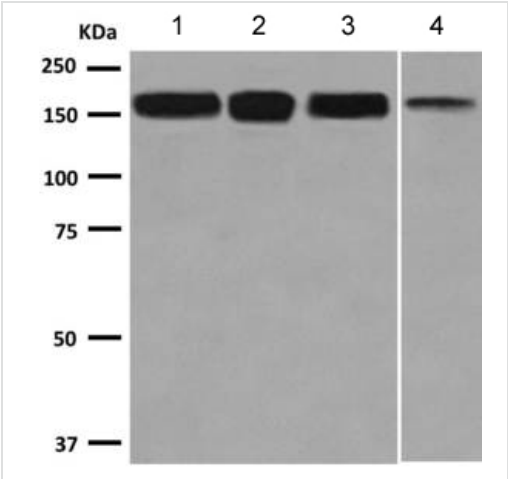
Function Promotes the exchange of Ras-bound GDP by GTP.

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



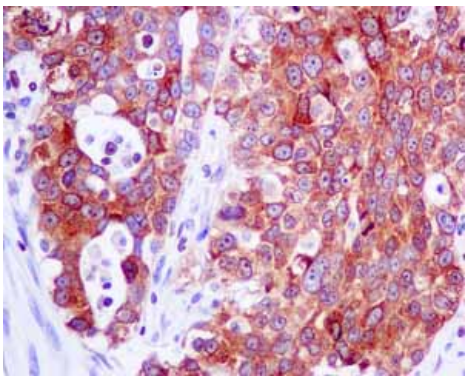
Western blot - Anti-SOS1 antibody [EPR7480] (ab140621)

All lanes : Anti-SOS1 antibody [EPR7480] (ab140621) at 1/1000 dilution

Lane 1 : Raji cell lysate
Lane 2 : K562 cell lysate
Lane 3 : HeLa cell lysate
Lane 4 : THP1 cell lysate

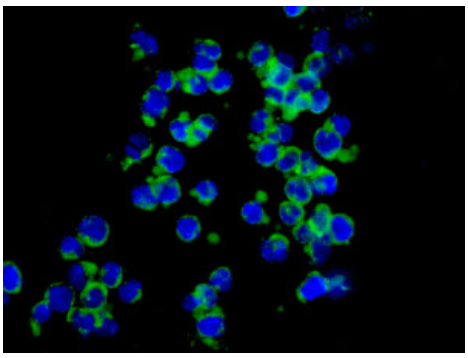
Lysates/proteins at 10 µg per lane.

Predicted band size: 152 kDa



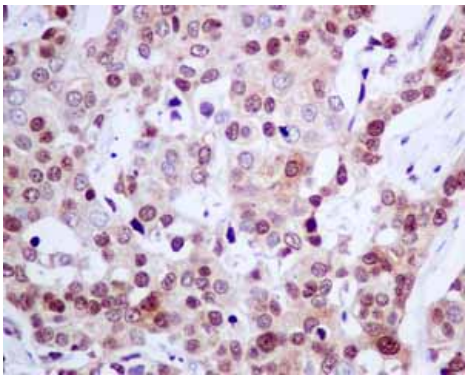
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOS1 antibody [EPR7480] (ab140621)

Immunohistochemical analysis of paraffin-embedded Human ovarian carcinoma tissue labelling SOS1 with ab140621 at 1/100 dilution.



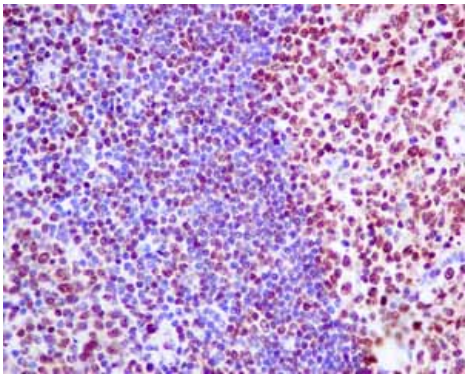
Immunocytochemistry/ Immunofluorescence - Anti-SOS1 antibody [EPR7480] (ab140621)

Immunofluorescent staining of Raji cells labelling SOS1 with ab140621 at 1/250 dilution.



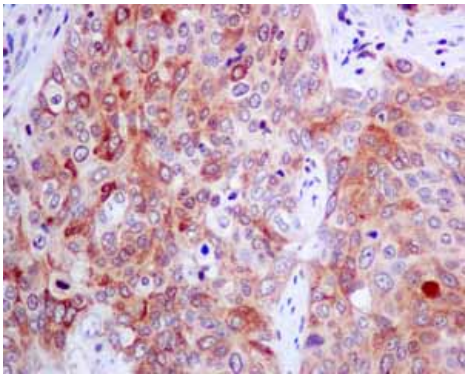
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOS1 antibody [EPR7480] (ab140621)

Immunohistochemical analysis of paraffin embedded Human Breast carcinoma tissue using ab140621 showing +ve staining.



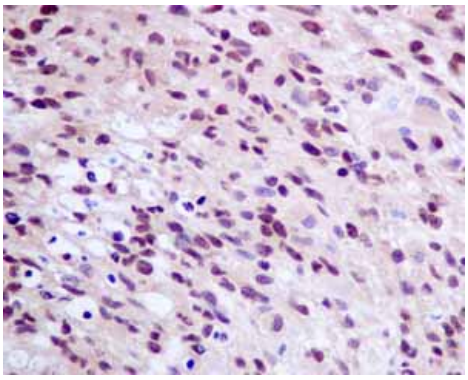
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOS1 antibody [EPR7480] (ab140621)

Immunohistochemical analysis of paraffin embedded normal Human tonsil tissue using ab140621 showing +ve staining.



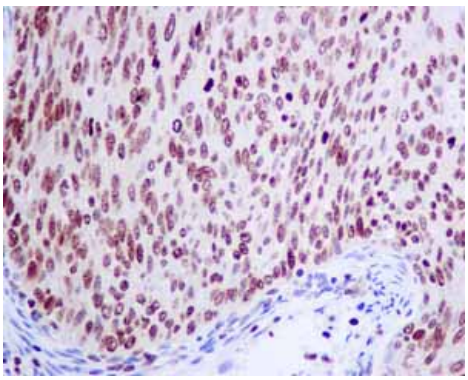
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOS1 antibody [EPR7480] (ab140621)

Immunohistochemical analysis of paraffin embedded Human Lung adenocarcinoma tissue using ab140621 showing +ve staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOS1 antibody [EPR7480] (ab140621)

Immunohistochemical analysis of paraffin embedded Human Glioma tissue using ab140621 showing +ve staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SOS1 antibody [EPR7480] (ab140621)

Immunohistochemical analysis of paraffin embedded Human Cervical carcinoma tissue using ab140621 showing +ve staining.

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