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FAM120A Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AW5641

Specification

FAM120A Antibody - Product Information

Application	**IF, IHC-P, WB,E**
Primary Accession	Q9NZB2
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**H=122,69,117,72,125;M=122 KDa**
Isotype	**IgG1,k**
Antigen Source	**HUMAN**

FAM120A Antibody - Additional Information

Gene ID 23196

Antigen Region
280-600

Other Names
Constitutive coactivator of PPAR-gamma-like protein 1, Oxidative stress-associated Src activator, Protein FAM120A, FAM120A, C9orf10, KIAA0183, OSSA

Dilution
IF~~1:25
IHC-P~~1:25
WB~~1:2000

Target/Specificity
This FAM120A antibody is generated from a mouse immunized with a recombinant protein of human FAM120A.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
FAM120A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

FAM120A Antibody - Protein Information

Name FAM120A

Function
Component of the oxidative stress-induced survival signaling. May regulate the activation of SRC

family protein kinases (PubMed:19015244). May act as a scaffolding protein enabling SRC family protein kinases to phosphorylate and activate PI3-kinase (PubMed:19015244). Binds IGF2 RNA and promotes the production of IGF2 protein (PubMed:19015244).

Cellular Location
Cytoplasm. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Note=Translocates from the cytosol to plasma membrane after UV irradiation.

Tissue Location
Widely expressed (PubMed:14585507). In gastric mucosa, detected in the bottom region of the foveolar epithelium (at protein level) (PubMed:19015244).

FAM120A Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FAM120A Antibody - Images

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0. 1% Triton X-100 permeabilized HeLa (human cervical epithelial adenocarcinoma cell line) cells labeling Pdx1 with AW5641 at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-mouse IgG (NA166821) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm staining on HeLa cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (PD18466410) at 1/100 dilution (red). The nuclear counter stain is DAPI (blue).

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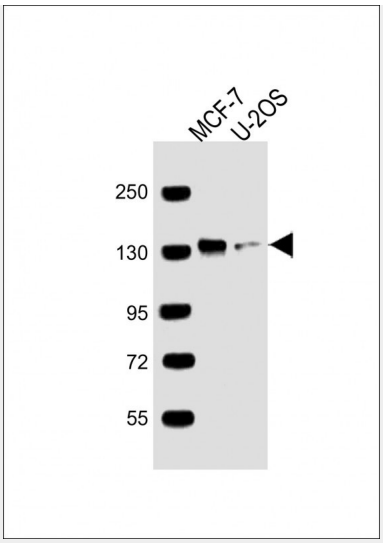
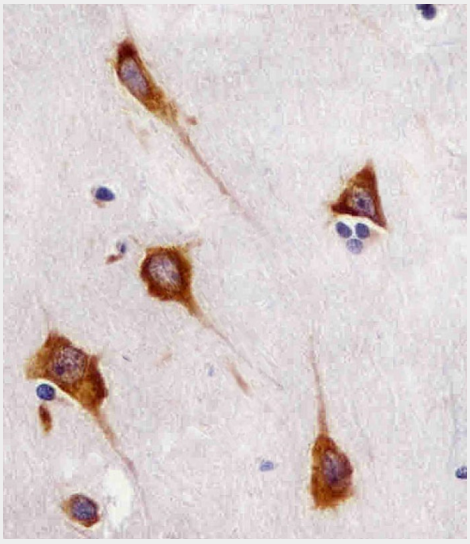


All lanes : Anti-FAM120A Antibody at1:2000 dilution Lane 1: MCF-7 whole cell lysate Lane 2: U-2OS whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 122 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AW5641 staining FAM120A in human brain sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0. 5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

FAM120A Antibody - Background

May participate in mRNA transport in the cytoplasm (By similarity). Critical component of the oxidative stress-induced survival signaling. Activates src family kinases and acts as a scaffolding protein enabling src family kinases to phosphorylate and activate PI3-kinase. Binds RNA and promotes the secretion of IGF-II. May play a pivotal role in the progression of scirrhous- type gastric cancer by supporting cancer cell survival in environments with various oxidative stresses.

FAM120A Antibody - References

Brahmbhatt S.B.,et al.Submitted (NOV-1999) to the EMBL/GenBank/DDBJ databases.

Humphray S.J.,et al.Nature 429:369-374(2004).
Nagase T.,et al.DNA Res. 3:17-24(1996).
Ohara O.,et al.Submitted (JUN-2005) to the EMBL/GenBank/DDBJ databases.
Holden S.,et al.Gene 318:149-161(2003).