

FAM20C polyclonal antibody

Catalog: BS31486

Host: Rabbit

Reactivity: Human

BackGround:

Extracellular serine/threonine protein kinase FAM20C: Golgi serine/threonine protein kinase that phosphorylates secretory pathway proteins within Ser-x-Glu/pSer motifs and plays a key role in biomineralization of bones and teeth . Constitutes the main protein kinase for extracellular phosphoproteome . Mainly phosphorylates proteins within the Ser-x-Glu/pSer motif, but also displays a broader substrate specificity . Phosphorylates ERO1A, enhancing its activity which is required to maintain endoplasmic reticulum redox homeostasis and for oxidative protein folding . During endoplasmic reticulum stress, phosphorylates P4HB/PDIA1 which induces a functional switch, causing P4HB to change from an oxidoreductase to a molecular chaperone . This is critical to maintain ER proteostasis and reduce cell death under ER stress . Phosphorylation of P4HB also promotes its interaction with ERN1, leading...

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~66.2 kDa

Swiss-Prot:

Q8IXL6

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/200)

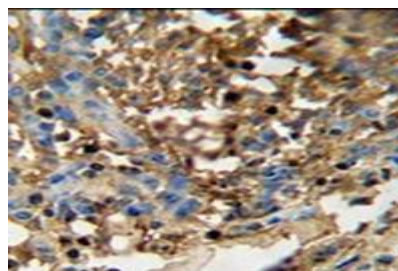
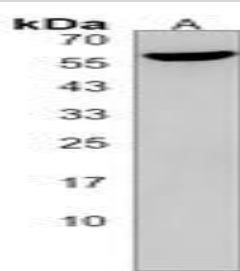
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of FAM20C protein.

DATA:



Immunohistochemical analysis of Cytokeratin 14 staining in human tonsil formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody 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.

Note:

For research use only, not for use in diagnostic procedure.

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