

## FAM20C recombinant protein

FAM20C, Active

|                              |                                 |                                     |
|------------------------------|---------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA73575</b> | HOST<br><b>Sf9 insect cells</b> | APPLICATIONS<br><b>Western Blot</b> |
|------------------------------|---------------------------------|-------------------------------------|

### PRODUCT SYNONYMS

FAM20C; Active; GEF-CK; DMP4; G-CK; RNS; FAM20C recombinant protein

### PRODUCT SPECIFICATIONS

|                                                        |                                                                                                                                                                                                                                                |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                   | Sf9 insect cells                                                                                                                                                                                                                               |
| Form/Format                                            | Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                            |
| Applicable Applications for FAM20C recombinant protein | WB (Western Blot), Kinase Assay                                                                                                                                                                                                                |
| Tag                                                    | GST                                                                                                                                                                                                                                            |
| Species                                                | Human                                                                                                                                                                                                                                          |
| Dry Ice Note                                           | The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.                                                                                                                                             |
| Preparation and Storage                                | Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |

### IMAGES



#### SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



#### Activity

Specific Activity: Sample Activity Plot. For specific information on a given lot, see related technical data sheet.

### ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for FAM20C recombinant protein | <p>Recombinant human FAM20C (23-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is BC040074.</p> <p>FAM20C is Golgi casein kinase that phosphorylates secretory proteins within a Serx-Glu/pSer motif. It phosphorylates caseins and several other secretory proteins including AMTN, ENAM, SPP1 and the small integrin-binding ligand N-linked glycoproteins that are involved in biomineralization (1). FAM20C null mice develop hypophosphatemic rickets along with significant downregulation of osteoblast differentiation markers (2). Mutations in FAM20C gene are associated with Raine syndrome, an osteosclerotic bone dysplasia in humans (3). Additionally, FAM20C is implicated in other physiological processes, such as wound healing, regeneration, and cell migration (4).</p> |
| Product Categories/Family for FAM20C recombinant protein   | Protein Kinases; Cell Cycle; Inflammation; Metabolic Disorder; Ser/Thr Kinases                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## References

1. Cui, J. et al. (2015) A secretory kinase complex regulates extracellular protein phosphorylation. eLife. 4:e0612.
2. Wang X, et al: (2012) Inactivation of a novel FGF23 regulator, FAM20C, leads to hypophosphatemic rickets in mice. PLoS Genet. 8(5):e1002708.
3. Tagliabracci VS, et al: (2012) Secreted kinase phosphorylates extracellular proteins that regulate biomineralization. Science. 336(6085):1150-1153
4. Tagliabracci VS, et al: (2015) A single kinase generates the majority of the secreted phosphoproteome. Cell 161: 1619-1632.

## NCBI AND UNIPROT INFORMATION

### Molecular Weight

93kDa

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/fam20c-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73575>