

For Research Use Only, Not for use in diagnostic procedures

Human S100A13

Human, recombinant protein expressed in *E. coli*.

Cat# CY-R2263

Amount: 100 µg (1.0 µg/µl)
Lot:**Introduction:**

The cDNA of human and murine S100A13 was first identified by screening expressed sequence tag data bases. The human S100A13 was shown to neighbor S100A1 on chromosome 1q21. Expression of S100A13 mRNA has so far been detected in skeletal muscle, heart, kidney, pancreas, ovary, spleen, and small intestine. S100A13 seems to function in exocytosis, since it is one of the targets of two antiallergic drugs, amlexanox and cromolyn, which inhibit degranulation of mast cells. Recently, association of S100A13 with the fibroblast growth factor 1 (FGF-1)/p40 synaptotagmin-1 (p40Syn-1) aggregate was shown, and amlexanox is able to repress this release. These findings suggest that S100A13 might be involved in the regulation of FGF-1 and p40Syn-1 release in response to heat shock. Another possibility might be that S100A13 is secreted together with the FGF-1/p40Syn-1 aggregate.

Product Description:

Full length of human S100A13, containing an N-terminal GST tag, expressed in *E. coli*. and purified by GSH agarose chromatography.

Gene Information:

The gene accession number is NM_001024210.

Gene Aliases:

CAAF2

Formulation:

Recombinant human S100A13 is supplied frozen in 2X PBS (2X phosphate buffered saline) containing 50 % glycerol.

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Mw (kDa) Recombinant human S100A13 demonstrates approximately 37 kDa band by SDS-PAGE analysis.

97 —

66 —

45 —

31 —

Purity is over 90 % estimated by SDS-PAGE analysis.

Storage:

Store product at -70°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.

Stability:

Unopened vial at -70 °C, for 1 year after delivery.

References:

1. Wicki, R et al. (1996) Characterization of the human and mouse cDNAs coding for S100A13, a new member of the S100 protein family. *Biochem. Biophys. Res. Commun.* 227: 594-599.
2. Katrin Ridinger et al. (2000) S100A13. BIOCHEMICAL CHARACTERIZATION AND SUBCELLULAR LOCALIZATION IN DIFFERENT CELL LINES *J. Biol. Chem.* 275: 8686-8694.
3. Matteo Landriscina et al. (2001) S100A13 Participates in the Release of Fibroblast Growth Factor 1 in Response to Heat Shock in Vitro *J. Biol. Chem.* 276: 22544 - 22552.

Related Products

- * CircuLex S100A13 ELISA Kit: Cat# CY-8057
- * CircuLex S100A12 ELISA Kit: Cat# CY-8058
- * CircuLex S100P ELISA Kit: Cat# CY-8060
- * CircuLex S100A8-MRP8 ELISA Kit: Cat# CY-8061
- * CircuLex S100A9-MRP14 ELISA Kit: Cat# CY-8062
- * CircuLex S100A11 ELISA Kit: Cat# CY-8063
- * CircuLex S100A14 ELISA Kit: Cat# CY-8064
- * CircuLex S100A7/Psoriasis ELISA Kit: Cat# CY-8073
- * CircuLex S100A4 ELISA Kit Ver.2: Cat# CY-8086

- * Anti-Human S100A3 (Clone YK-3E3): Cat# CY-M1039
- * Anti-Human S100A4 (p9Ka): Cat# CY-P1026
- * Anti-Human S100P: Cat# CY-P1028
- * Anti-Human S100A10: Cat# CY-P1033
- * Anti-Human S100A16: Cat# CY-P1034

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- * **Anti-Human S100A3: Cat# CY-P1039**
- * **Anti-Human S100A2: Cat# CY-P1040**

- * **Human S100B: Cat# CY-R2250**
- * **Human S100A1: Cat# CY-R2251**
- * **Human S100A2: Cat# CY-R2252**
- * **Human S100A3: Cat# CY-R2253**
- * **Human S100A4: Cat# CY-R2254**
- * **Human S100A5: Cat# CY-R2255**
- * **Human S100A6: Cat# CY-R2256**
- * **Human S100A7: Cat# CY-R2257**
- * **Human S100A8: Cat# CY-R2258**
- * **Human S100A9: Cat# CY-R2259-G**
- * **Human S100A9: Cat# CY-R2259-H**
- * **Human S100A10: Cat# CY-R2260**
- * **Human S100A12: Cat# CY-R2262-G**
- * **Human S100A12: Cat# CY-R2262-H**
- * **Human S100A13: Cat# CY-R2263**
- * **Human S100A14: Cat# CY-R2264**
- * **Human S100A16: Cat# CY-R2266**
- * **Human S100P: Cat# CY-R2267**
- * **Human S100A11: Cat# CY-R2269**

- * **Human S100A1 Low Endotoxin: Cat# CY-R2451**
- * **Human S100A3 Low Endotoxin: Cat# CY-R2453**
- * **Human S100A4 Low Endotoxin: Cat# CY-R2454**
- * **Human S100A7 Low Endotoxin: Cat# CY-R2457**
- * **Human S100A8 Low Endotoxin: Cat# CY-R2458**
- * **Human S100A9 Low Endotoxin: Cat# CY-R2459-G**
- * **Human S100A11 Low Endotoxin: Cat# CY-R2461**
- * **Human S100A12 Low Endotoxin: Cat# CY-R2462-G**
- * **Human S100A14 Low Endotoxin: Cat# CY-R2464**
- * **Human S100P Low Endotoxin: Cat# CY-R2467**

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