

Product datasheet for **TP308250M**

Calprotectin (S100A9) (NM_002965) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of human S100 calcium binding protein A9 (S100A9), with C-terminal MYC/DDK tag, secretory expressed in HEK293 cells, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC208250 protein sequence Red =Cloning site Green =Tags(s)
	MTCKMSQLERNIETIINTFHQYSVKLGHPDTLNQGEFKELVRKDLQNFLKKENKNEKVEIHIMEDLDTNA DKQLSFEEFIMLMARLTWASHEKMHEGDEGPGHHHKPGLGEGTP
	TR TRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	13.1 kDa
Concentration:	>0.1 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	Cell treatment (PMID: 26933915) Cell treatment (PMID: 27670158)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002956
Locus ID:	6280



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UniProt ID: [P06702](#)

RefSeq Size: 586

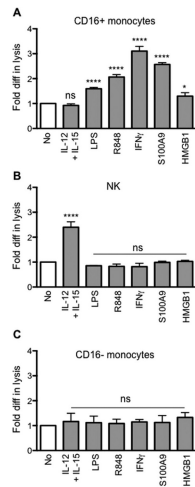
Cytogenetics: 1q21.3

RefSeq ORF: 342

Synonyms: 60B8AG; CAGB; CFAG; CGLB; L1AG; LIAG; MAC387; MIF; MRP14; NIF; P14

Summary: The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein may function in the inhibition of casein kinase and altered expression of this protein is associated with the disease cystic fibrosis. This antimicrobial protein exhibits antifungal and antibacterial activity. [provided by RefSeq, Nov 2014]

Product images:



NK cells, CD16+ or CD16- monocytes were either untreated (white bar) or pre-treated with various stimuli (grey bar), including S100A9 (OriGene [TP308250]), and co-cultured with KM966-coated A549 cells. The increases in A549 cell lysis in treated vs. untreated effector cells are plotted. * $p < 0.05$; **** $p < 0.0001$; ns: not significant. Figure cited from Sci Rep, PMID: 27670158



Coomassie blue staining of purified S100A9 protein (Cat# [TP308250]). The protein was produced from HEK293T cells transfected with S100A9 cDNA clone (Cat# [RC208250]) using MegaTran 2.0 (Cat# [TT210002]).