Human S100 calcium binding protein A9/calgranulin B (S100A9) ELISA Kit

Catalog No: #EK7470

Package Size: #EK7470-1 48T #EK7470-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Human S100 calcium binding protein A9/calgranulin B (S100A9) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	60B8AG; CAGB; CFAG; CGLB; L1AG; LIAG; MAC387; MIF; MRP14; NIF; P14; S100 calcium-binding protein A9|S100 calcium-binding protein A9 (calgranulin B)|calgranulin B
Accession No.	P06702
Uniprot	P06702
GeneID	6280;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:15.6-1000 pg/mL

Sensitivity:5.8 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate S100A9 in samples. An antibody specific for S100A9 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyS100A9 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for S100A9 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of S100A9 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:S100 calcium binding protein A9 has been implicated in the abnormal differentiation of myeloid cells in the stroma of cancer. This contributes to creating an overall immunosuppressive microenvironemnt that may contribute to the inability of a protective or therapeutic cellular immune response to be generated by the tumor-bearing host.
Outside of malignancy, S100A9 in association with its dimerization partner, S100A8 (MRP8 or calgranulin A) signals for lymphocyte recruitment in sites of inflammation. S100A9/A8 (synonyma: Calgranulin A/B; Calprotectin) are also regarded as marker proteins for a number of inflammatory diseases in humans, especially in rheumatoid arthritis.

Note: This product is for in vitro research use only