## Human Rap guanine nucleotide exchange factor 4 (RAPGEF4) ELISA Kit

Catalog No: #EK7803

Package Size: #EK7803-1 48T #EK7803-2 96T



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

Description		
Product Name	Human Rap guanine nucleotide exchange factor 4 (RAPGEF4) ELISA Kit	
Brief Description	ELISA Kit	
Applications	ELISA	
Species Reactivity	Human (Homo sapiens)	
Other Names	CAMP-GEFII; CGEF2; EPAC2; Nbla00496; RAP guanine-nucleotide-exchange factor (GEF)	
	4 cAMP-regulated guanine nucleotide exchange factor II exchange protein directly activated by cAMP	
	2 putative protei	
Accession No.	Q8WZA2	
Uniprot	Q8WZA2	
GenelD	11069;	
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**

Sensitivity:6.25 pg/mL Sample Type:Serum, Plasma, Other biological fluids Sample Volume: 1-200 µL Assay Time:1-4.5h	Detect Range:25-1600 pg/mL	
Sample Volume: 1-200 µL	Sensitivity:6.25 pg/mL	
· · ·	Sample Type:Serum, Plasma, Other biological fluids	
Assay Time:1-4.5h	Sample Volume: 1-200 µL	
	Assay Time:1-4.5h	
Detection wavelength:450 nm	Detection wavelength:450 nm	

## **Product Description**

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate RAPGEF4 in samples. An antibody specific for RAPGEF4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyRAPGEF4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for RAPGEF4 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 RAPGEF4 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Sequence analysis predicted that the 1,011-amino acid cAMP-GEFII protein contains an N-terminal cAMP-binding domain and a C-terminal GEF domain. Expression of cAMP-GEFI and cAMP-GEFII activated RAP1A after forskolin and 3-isobutyl-1-methylxanthine stimulation, independent of the protein kinase A pathway. cAMP-GEFI and cAMP-GEFII expression did not activate or only slightly activated other RAS superfamily members after stimulation. Northern blot analysis detected expression of a 4.4-kb cAMP-GEFII transcript that was most prominent in brain and adrenal gland. Within the brain, expression was

strongest in cortex, occipital pole, frontal lobe, temporal lobe, amygdala, putamen, hippocampus, and cerebellum.

Note: This product is for in vitro research use only