Rat Hemoglobin (Hb) ELISA Kit

Catalog No: #EK11576

Package Size: #EK11576-1 48T #EK11576-2 96T

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

Description

Product Name	Rat Hemoglobin (Hb) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	CD31; MGC126895; MGC126897; alpha 1 globin|alpha one globin|alpha-1 globin|alpha-1-globin|hemoglobin alpha 1 globin chain|hemoglobin alpha-1 chain
Accession No.	P01946
Uniprot	P01946
GeneID	25632;360504;
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:1.56-100 μg/mL

Sensitivity:0.75 μg/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 HBA1 in samples. An antibody specific for HBA1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyHBA1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for HBA1 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 HBA1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Hemoglobin is the iron-containing oxygen-transport metalloprotein in the red blood cells of vertebrates, and the tissues of some invertebrates.In mammals, the protein makes up about 97% of the red blood cells dry content, and around 35% of the total content. Hemoglobin transports oxygen from the lungs or gills to the rest of the body where it releases the oxygen for cell use. It also has a variety of other roles of gas transport and effect-modulation which vary from species to species, and are quite diverse in some invertebrates. Hemoglobin has an oxygen binding capacity of between 1.36 and 1.37 ml O2 per gram of hemoglobin, which increases the total blood oxygen capacity seventyfold.Hemoglobin is found in nonerythroid cells including the A9 dopaminergic neurons in the substantia nigra, macrophages, alveolar cells, and mesangial cells in the kidney.

Note: This product is for in vitro research use only