

Human Extracellular glycoprotein lacritin (LACRT) ELISA Kit



Catalog No: #EK10165

Orders: order@signalwayantibody.com

Package Size: #EK10165-1 48T #EK10165-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Extracellular glycoprotein lacritin (LACRT) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	MGC71934;
Accession No.	Q9GZZ8
Uniprot	Q9GZZ8
GeneID	90070;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:1.56-100 ng/mL

Sensitivity:0.63 ng/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 LACRT in samples. An antibody specific for LACRT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLACRT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LACRT 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 LACRT bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Lacritin is a 12.3 kDa glycoprotein encoded in humans by the LACRT gene. Lacritin is a secreted protein found in tears and saliva. Lacritin also promotes tear secretion and proliferation of some epithelial cells. Lacritin is thus a prosecretory mitogen. Most lacritin is produced by the lacrimal gland. Some lacritin is produced by the meibomian gland, and also by epithelial cells of the conjunctiva and cornea. Together these epithelia comprise much of the lacrimal functional unit (LFU). Dry eye is the most common disease of the LFU. Preliminary studies with small trials suggest that lacritin may be differentially downregulated in dry eye. Topical lacritin promotes tearing in rabbit preclinical studies. Lacritin cell targeting is dependent on the cell surface heparan sulfate proteoglycan syndecan-1 (SDC1).

Note: This product is for in vitro research use only