

## Human Destrin (DSTN) ELISA Kit

Catalog No: #EK11271



Package Size: #EK11271-1 48T #EK11271-2 96T

Orders: order@signalwayantibody.com

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## Description

Product Name	Human Destrin (DSTN) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	ACTDP; ADF; bA462D18.2; bA462D18.2 (destrin (actin depolymerizing factor ADF) (ACTDP)) destrin
Accession No.	P60981
Uniprot	P60981
GeneID	11034;
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:0.156-10 ng/mL

Sensitivity:0.056 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 DSTN in samples. An antibody specific for DSTN has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyDSTN present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for DSTN 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 DSTN bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Destrin belongs to the actin-binding proteins ADF/cofilin family. This family of proteins is responsible for enhancing the turnover rate of actin in vivo. This gene encodes the actin depolymerizing protein that severs actin filaments (F-actin) and binds to actin monomers (G-actin). Two transcript variants encoding distinct isoforms have been identified for this gene.

In a variety of eukaryotes, destrin regulates actin in the cytoskeleton. Destrin binds actin and is thought to connect it as gelsolin segment-1 does. Furthermore, the binding of actin by destrin and cofilin is regulated negatively by phosphorylation. Destrin can also sever actin filaments. At a pH of 7.3 or higher it can sever the filaments but a lower pH the ability for it to do so is limited.

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Note: This product is for in vitro research use only