

Product Name: KD-Validated DSTN Mouse Monoclonal Antibody**Catalog #: KVA00696**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:2,500-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 18.5kDa

Antigen Information

Gene Name	DSTN
Alternative Names	DSTN; Destrin, Actin Depolymerizing Factor; ACTDP; ADF; Actin-Depolymerizing Factor; Destrin; BA462D18.2 (Destrin (Actin Depolymerizing Factor ADF) (ACTDP)); Epididymis Secretory Sperm Binding Protein; Destrin (Actin Depolymerizing Factor); Epididymis Luminal Protein 32; BA462D18.2; HEL32; DSN
Gene ID	11034.0
SwissProt ID	P60981
Immunogen	Recombinant protein of human DSTN

Background

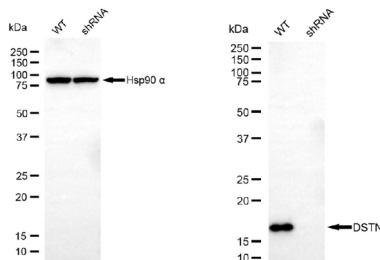
The product of this gene belongs to the actin-binding proteins ADF family. This family of proteins is responsible for enhancing

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. [provided by RefSeq, Jul 2008]

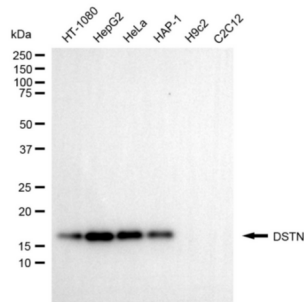
Research Area

Signal Transduction

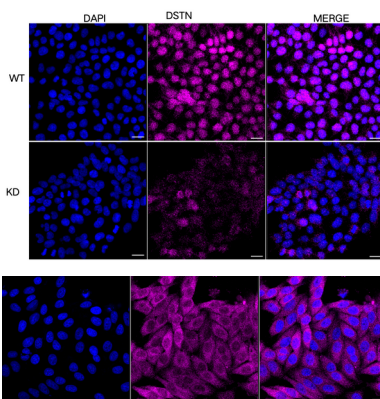
Image Data



Western blotting analysis using DSTN antibody (KVA00696). DSTN expression in wild type (WT) and DSTN shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with DSTN antibody (KVA00696, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.

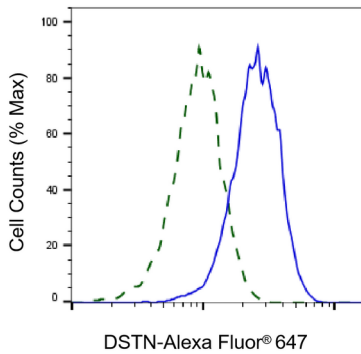


Western blotting analysis using DSTN antibody (KVA00696). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with DSTN antibody (KVA00696, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.

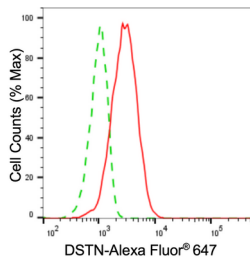


Immunocytochemical staining of HeLa cells using DSTN antibody (KVA00696, 1:1,000). Top panel: wild-type (WT); Bottom panel: DSTN shRNA knockdown (KD). Nuclei were stained blue with DAPI; DSTN was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.

Immunocytochemical staining of HepG2 cells with DSTN antibody (KVA00696, 1:1,000). Nuclei were stained blue with DAPI; DSTN was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and Smart Gain: Medium. Scale bar, 20 µm.



Validation of DSTN knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with DSTN antibody (KVA00696, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of DSTN expression in HepG2 cells using DSTN antibody (KVA00696, 1:2,000). Green, isotype control; red, DSTN.