Datasheet for ABIN2856526

anti-HS1BP3 antibody (C-Term)

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Overview

Quantity:	100 µL
Target:	HS1BP3
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HS1BP3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Carrier-protein conjugated synthetic peptide encompassing a sequence within the C-terminus region of human HS1BP3. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Zebrafish (Danio rerio)
Characteristics:	Rabbit Polyclonal antibody to HS1BP3 (HCLS1 binding protein 3) HS1BP3 antibody [C2C3], C-term
Purification:	Purified by antigen-affinity chromatography.
Grade:	KO Validated

Target Details

Target:	HS1BP3
Alternative Name:	HCLS1 binding protein 3 (HS1BP3 Products)
Background:	The protein encoded by this gene shares similarity with mouse Hs1bp3, an Hcls1/Hs1-interacting protein that may be involved in lymphocyte activation.
Molecular Weight:	43 kDa
Gene ID:	64342
UniProt:	Q53T59

Application Details

Application Notes:	WB: 1:5000-1:20000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: Molt-4 Validation: KO/KD, Orthogonal
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

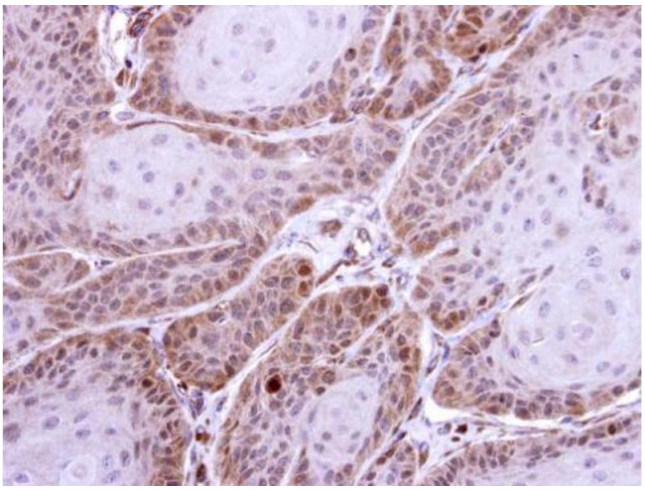
Publications

Product cited in:	Sprenger, Wani, Hesseling, König, Patron, MacVicar, Ahola, Wai, Barth, Rugarli, Bergami, Langer:

Publications

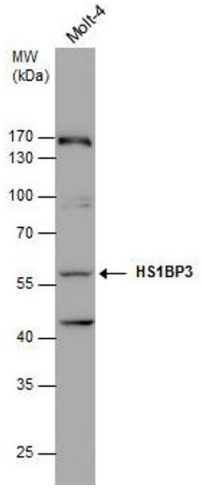
"Loss of the mitochondrial i-AAA protease YME1L leads to ocular dysfunction and spinal axonopathy." in: **EMBO molecular medicine**, Vol. 11, Issue 1, (2019) (PubMed).

Images



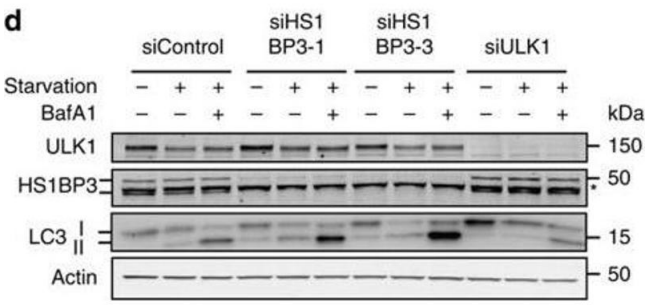
Immunohistochemistry

Image 1. IHC-P Image Immunohistochemical analysis of paraffin-embedded Cal27 xenograft, using HS1BP3, antibody at 1:500 dilution.



Western Blotting

Image 2. WB Image HS1BP3 antibody detects HS1BP3 protein by western blot analysis. Whole cell extracts (30 µg) was separated by 10% SDS-PAGE, and the membrane was blotted with HS1BP3 antibody , at a dilution of 1:10000.



Western Blotting

Image 3. HS1BP3 is a negative regulator of autophagy.(a) HEK GFP-LC3 cells were transfected with four individual siRNA oligonucleotides against HS1BP3. 72h post transfection the cells were starved or not for 2h in EBSS, followed by fixation and fluorescence microscopy. Scale bar, 10µm. (b) The number of GFP-LC3 spots per cell in a was quantified by high-content analysis (mean±s.d. from two independent experiments in triplicates, ~50,000 cells analysed per condition). (c) Relative expression of HS1BP3

after siRNA knockdown was measured by quantitative PCR with reverse transcription (mean±s.d.). (d) HEK GFP-LC3 cells were transfected with the indicated siRNA oligos and starved or not for 2h in EBSS in the presence or absence of BafA1. * Indicates an unspecific band in the HS1BP3 immunoblot. (e) The level of LC3-II/actin was quantified from immunoblots and normalized to siControl fed (mean±s.e.m., n=5). (f) HEK GFP-p62 cells were transfected with siRNA against HS1BP3 or ULK1. Expression of GFP-p62 was induced by addition of tetracycline (compare ON versus OFF) for 48h before expression was shut off and the cells were incubated in EBSS (starved) for 2.5h to induce autophagic degradation of GFP-p62. GFP-p62 intensity was monitored by flow cytometry and normalized to starved siControl (siCtrl, mean±s.e.m., n=4). (g) The degradation of long-lived proteins in HeLa cells transfected with control siRNA or siRNA against HS1BP3 was quantified as the release of 14C-valine after 4h starvation in the absence or presence of 3-methyladenine (3MA) and normalized to the degradation in fed control cells (mean±s.e.m., n=3). *P<0.05, **P<0.01, ***P<0.001, by Student's t-test. - figure provided by CiteAb. Source: PMID28004827