ARG57811
anti-STUB1 / CHIP antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes STUB1 / CHIP
Tested Reactivity	Hu, Ms, Rat, Dog, Mk
Tested Application	WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	STUB1 / CHIP
Species	Human
Immunogen	Recombinant Human STUB1 protein.
Conjugation	Un-conjugated
Alternate Names	NY-CO-7; Antigen NY-CO-7; UBOX1; EC 6.3.2.-; E3 ubiquitin-protein ligase CHIP; SDCCAG7; CHIP; STIP1 homology and U box-containing protein 1; HSPABP2; SCAR16; Carboxy terminus of Hsp70-interacting protein; CLL-associated antigen KW-8

Application Instructions

Application table

Application	Dilution
WB	1:500 - 1:5000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

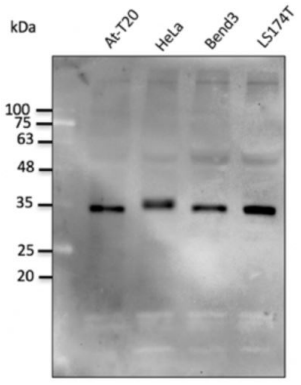
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.05% Sodium azide and 20% Glycerol.
Preservative	0.05% Sodium azide
Stabilizer	20% Glycerol
Concentration	3 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	STUB1
Gene Full Name	STIP1 homology and U-box containing protein 1, E3 ubiquitin protein ligase
Background	This gene encodes a protein containing tetratricopeptide repeat and a U-box that functions as a ubiquitin ligase/cochaperone. The encoded protein binds to and ubiquitinates shock cognate 71 kDa protein (Hspa8) and DNA polymerase beta (Polb), among other targets. Mutations in this gene cause spinocerebellar ataxia, autosomal recessive 16. Alternative splicing results in multiple transcript variants. There is a pseudogene for this gene on chromosome 2. [provided by RefSeq, Jun 2014]
Function	E3 ubiquitin-protein ligase which targets misfolded chaperone substrates towards proteasomal degradation. Collaborates with ATXN3 in the degradation of misfolded chaperone substrates: ATXN3 restricting the length of ubiquitin chain attached to STUB1/CHIP substrates and preventing further chain extension. Ubiquitinates NOS1 in concert with Hsp70 and Hsp40. Modulates the activity of several chaperone complexes, including Hsp70, Hsc70 and Hsp90. Mediates transfer of non-canonical short ubiquitin chains to HSPA8 that have no effect on HSPA8 degradation. Mediates polyubiquitination of DNA polymerase beta (POLB) at 'Lys-41', 'Lys-61' and 'Lys-81', thereby playing a role in base-excision repair: catalyzes polyubiquitination by amplifying the HUWE1/ARF-BP1-dependent monoubiquitination and leading to POLB-degradation by the proteasome. Mediates polyubiquitination of CYP3A4. Ubiquitinates EPHA2 and may regulate the receptor stability and activity through proteasomal degradation. Negatively regulates the suppressive function of regulatory T-cells (Treg) during inflammation by mediating the ubiquitination and degradation of FOXP3 in a HSPA1A/B-dependent manner. [UniProt]
Calculated Mw	35 kDa
PTM	Monoubiquitinated at Lys-2 following cell stress by UBE2W, promoting the interaction with ATXN3 (By similarity). Auto-ubiquitinated; mediated by UBE2D1 and UBE2D2. [UniProt]

Images



ARG57811 anti-STUB1 / CHIP antibody WB image

Western blot: 50 µg of At-T20, HeLa, Bend3 and LS174T cell lysates stained with ARG57811 anti-STUB1 / CHIP antibody at 1:2500 dilution.