

ARG43100 anti-CLBP / SKD3 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CLBP / SKD3
Tested Reactivity	Hu, Ms, Rat, Mk
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CLBP / SKD3
Species	Human
Immunogen	Recombinant protein corresponding to Q438-I707 of Human CLBP / SKD3.
Conjugation	Un-conjugated
Alternate Names	Caseinolytic peptidase B protein homolog; SKD3; Suppressor of potassium transport defect 3; MGCA7; EC 3.6.1.3; MEGCANN; ANKCLB; HSP78

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 70 kDa	

Properties

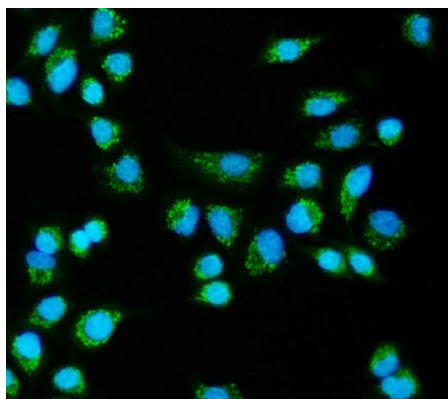
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl, 0.01% Sodium azide and 4% Trehalose.
Preservative	0.01% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml

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 or below. 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

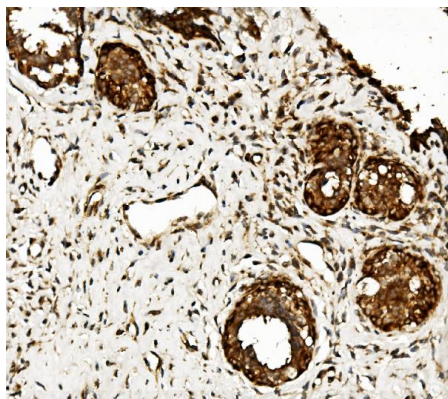
Gene Symbol	CLPB
Gene Full Name	ClpB homolog, mitochondrial AAA ATPase chaperonin
Background	This gene belongs to the ATP-ases associated with diverse cellular activities (AAA+) superfamily. Members of this superfamily form ring-shaped homo-hexamers and have highly conserved ATPase domains that are involved in various processes including DNA replication, protein degradation and reactivation of misfolded proteins. All members of this family hydrolyze ATP through their AAA+ domains and use the energy generated through ATP hydrolysis to exert mechanical force on their substrates. In addition to an AAA+ domain, the protein encoded by this gene contains a C-terminal D2 domain, which is characteristic of the AAA+ subfamily of Caseinolytic peptidases to which this protein belongs. It cooperates with Hsp70 in the disaggregation of protein aggregates. Allelic variants of this gene are associated with 3-methylglutaconic aciduria, which causes cataracts and neutropenia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]
Function	May function as a regulatory ATPase and be related to secretion/protein trafficking process. [UniProt]
Calculated Mw	79 kDa
Cellular Localization	Mitochondrion. [UniProt]

Images



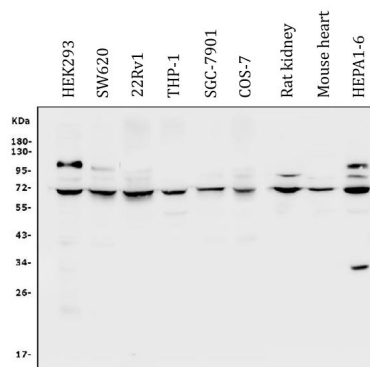
ARG43100 anti-CLBP / SKD3 antibody ICC/IF image

Immunofluorescence: A549 cells were blocked with 10% goat serum and then stained with ARG43100 anti-CLBP / SKD3 antibody (green) at 4 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



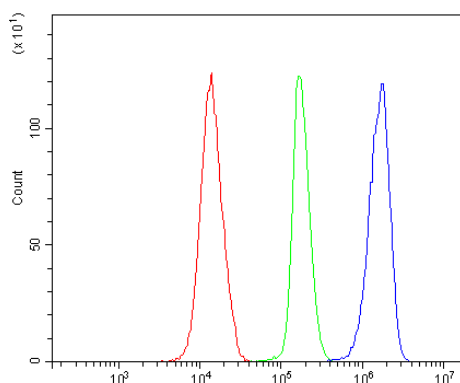
ARG43100 anti-CLBP / SKD3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human mammary cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43100 anti-CLBP / SKD3 antibody at 1 µg/ml dilution, overnight at 4°C.



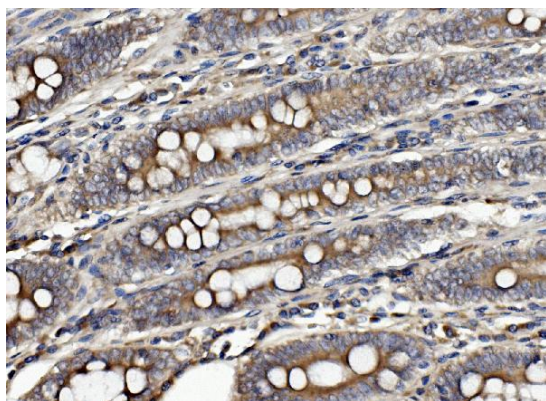
ARG43100 anti-CLBP / SKD3 antibody WB image

Western blot: 50 µg of sample under reducing conditions. HEK293, SW620, 22Rv1, THP-1, SGC-7901, COS-7, Rat kidney, Mouse heart and HEPA1-6 whole cell lysates stained with ARG43100 anti-CLBP / SKD3 antibody at 0.5 µg/ml dilution, overnight at 4°C.



ARG43100 anti-CLBP / SKD3 antibody FACS image

Flow Cytometry: K562 cells were blocked with 10% normal goat serum and then stained with ARG43100 anti-CLBP / SKD3 antibody (blue) at 1 µg/10⁶ cells for 30 min at 20°C, followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 µg/10⁶ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



ARG43100 anti-CLBP / SKD3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human rectal cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43100 anti-CLBP / SKD3 antibody at 1 µg/ml dilution, overnight at 4°C.