

Anti-SEN7 Antibody

Catalog # AP59859

Product Information

Application	WB, IHC
Primary Accession	Q9BQF6
Reactivity	Human, Mouse, Rat, Pig, Bovine, Dog, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	119658

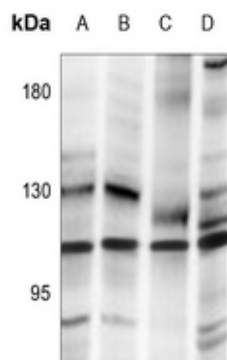
Additional Information

Gene ID	57337
Other Names	KIAA1707; SSP2; SUSP2; Sentrin-specific protease 7; SUMO-1-specific protease 2; Sentrin/SUMO-specific protease SENP7
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human SENP7. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

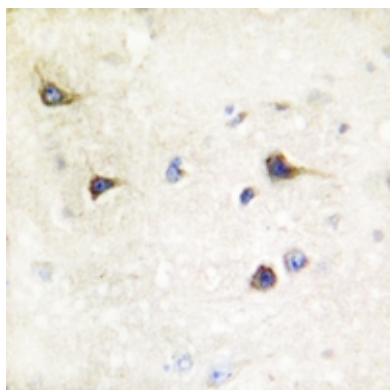
Protein Information

Name	SEN7 {ECO:0000303 Ref.2, ECO:0000312 HGNC:HGNC:30402}
Function	Protease that acts as a positive regulator of the cGAS-STING pathway by catalyzing desumoylation of CGAS. Desumoylation of CGAS promotes DNA-binding activity of CGAS, subsequent oligomerization and activation (By similarity). Deconjugates SUMO2 and SUMO3 from targeted proteins, but not SUMO1 (PubMed: 18799455). Catalyzes the deconjugation of poly-SUMO2 and poly-SUMO3 chains (PubMed: 18799455). Has very low efficiency in processing full-length SUMO proteins to their mature forms (PubMed: 18799455).
Cellular Location	Cytoplasm {ECO:0000250 UniProtKB:Q8BUH8}.

Images



Western blot analysis of SENP7 expression in HEK293T (A), A2780 (B), C6 (C), AML12 (D) whole cell lysates. (Predicted band size: 119 kD; Observed band size: 112 kD)



Immunohistochemical analysis of SENP7 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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