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Anti-NCOA7 Antibody

Catalog # AP51379

Product Information

Application	WB, IHC
Primary Accession	Q8NI08
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	106162

Additional Information

Gene ID	135112
Other Names	ERAP140; ESNA1; Nuclear receptor coactivator 7; 140 kDa estrogen receptor-associated protein; Estrogen nuclear receptor coactivator 1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human NCOA7. 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

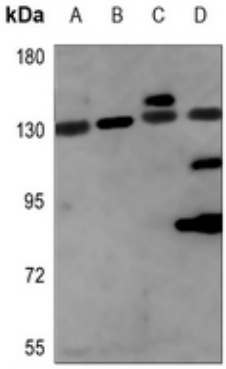
Name	NCOA7
Synonyms	ERAP140, ESNA1
Function	Transcriptional coactivator which enhances the transcriptional activities of several nuclear receptors including ESR1, THRB, PPARG and RARA (PubMed:11971969). Inhibits the activity of the vacuolar-type ATPase (V-ATPase) by inducing disassembly of the V-ATPase complex (PubMed:38593795). Protects the Golgi apparatus lumen from excess acidification by inhibiting V-ATPase ATP hydrolytic activity through interaction with V-ATPase catalytic subunit ATP6V1A, maintaining optimal conditions for glycosylation enzymes (By similarity). Required to stabilize V-ATPase V1 subunits ATP6V1B2 and ATP6V1A at membrane sites (By similarity). Involved in protection against oxidative damage (PubMed:17391516, PubMed:25330068). Involved in urine acidification (By similarity).
Cellular Location	Nucleus. Cytoplasm. Golgi apparatus, cis-Golgi network membrane

	{ECO:0000250|UniProtKB:Q6DFV7}; Peripheral membrane protein. Golgi apparatus, trans-Golgi network membrane {ECO:0000250|UniProtKB:Q6DFV7}; Peripheral membrane protein. Note=Predominantly nuclear following estradiol stimulation (PubMed:17391516). Localizes to the nucleus and cytoplasm in the absence of estradiol (PubMed:17391516). Recruited to the cis- Golgi network and trans-Golgi network membranes in a Rab-dependent manner (By similarity). {ECO:0000250|UniProtKB:Q6DFV7, ECO:0000269|PubMed:17391516}
Tissue Location	Highly expressed in brain. Weakly expressed in mammary gland, ovary, uterus, prostate, stomach, bladder, spinal cord and pancreas. Expressed in cancer cell line

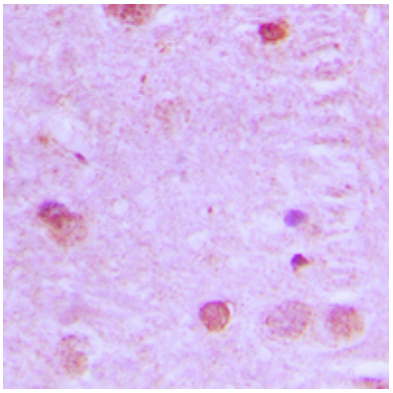
References

Shao W.,et al.Mol. Cell. Biol. 22:3358-3372(2002).
Ohira M.,et al.Cancer Lett. 197:63-68(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Mungall A.J.,et al.Nature 425:805-811(2003).

Images



Western blot analysis of NCOA7 expression in K562 (A), mouse liver (B), mouse kidney (C), rat liver (D) whole cell lysates. (Predicted band size: 106 kD; Observed band size: 130 kD)



Immunohistochemical analysis of NCOA7 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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