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NCOA7 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5453

Product Information

Application	FC, IHC-P, WB
Primary Accession	Q8NI08
Other Accession	Q6DFV7
Reactivity	Mouse, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	106162
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	135112
Antigen Region	76-103
Other Names	Nuclear receptor coactivator 7, 140 kDa estrogen receptor-associated protein, Estrogen nuclear receptor coactivator 1, NCOA7, ERAP140, ESNA1
Dilution	FC~~1:10~50 IHC-P~~1:100~500 WB~~1:1000
Target/Specificity	This NCOA7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 76-103 amino acids from the N-terminal region of human NCOA7.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NCOA7 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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

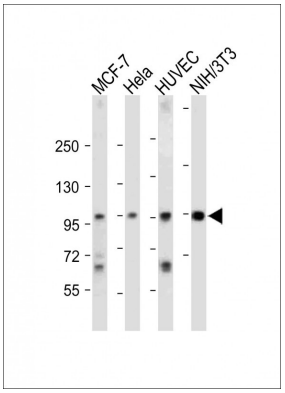
Background

NCOA7 enhances the transcriptional activities of several nuclear receptors. It is involved in the coactivation of different nuclear receptors, such as ESR1, THRB, PPARG and RARA.

References

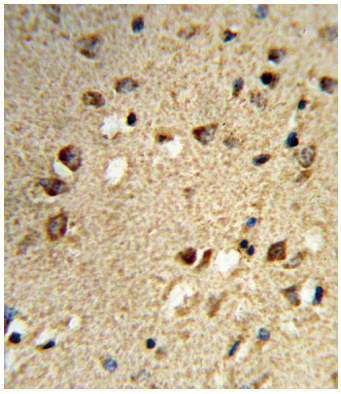
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?Mungall, A.J., et al. Nature 425(6960):805-811(2003)
?Ohira, M., et al. Cancer Lett. 197 (1-2), 63-68 (2003) :
?Rushing, S.R., et al. Arch. Biochem. Biophys. 403(2):189-201(2002)

Images

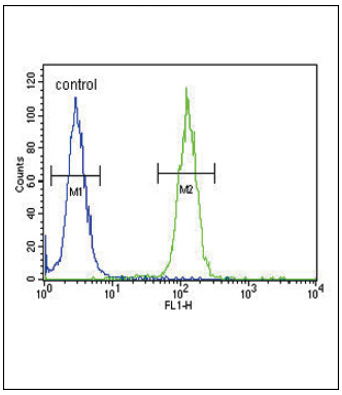


All lanes : Anti-NCOA7 Antibody (N-term) at 1:2000 dilution Lane 1: MCF-7 whole cell lysate Lane 2: Hela whole cell lysate Lane 3: HUVEC whole cell lysate Lane 4: NIH/3T3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 106 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Formalin-fixed and paraffin-embedded human brain



tissue reacted with NCOA7 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



NCOA7 Antibody (N-term) (Cat. #AW5453) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.