NCOA4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NCOA4, Polyclonal Antibody
Full Product Name	NCOA4, CT (NCOA4, ARA70, ELE1, RFG, Nuclear receptor coactivator 4, Androgen receptor coactivator 70kD protein, Androgen receptor-associated protein of 70kD, Ret-activating protein ELE1) (MaxLight 490)
Product Gene Name	anti-NCOA4 antibody
Product Synonym Names	NCOA4; ARA70; ELE1; RFG; Nuclear receptor coactivator 4; Androgen receptor coactivator 70kD protein; Androgen receptor-associated protein of 70kD; Ret-activating protein ELE1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	188550
3D Structure	ModBase 3D Structure for Q13772
Immunogen	NCOA4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 495-524 amino acids from the C-terminal region of human NCOA4.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-NCOA4 antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-NCOA4 antibody	Western Blot (WB), FLISA
Application Notes for anti-NCOA4 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-NCOA4 antibody	This gene encodes an androgen receptor coactivator. The encoded protein interacts with the androgen receptor in a ligand-dependent manner to enhance its transcriptional activity. Chromosomal translocations between this gene and the ret tyrosine kinase gene, also located on chromosome 10, have been associated with papillary thyroid carcinoma.
Product References and Citations for anti-NCOA4 antibody	Sadow, P.M., et al. Endocr. Pathol. 21(2):73-79(2010). Landa, I., et al. PLoS Genet. 5 (9), E1000637 (2009): Richardson, D.S., et al. Cancer Res. 69(11):4861-4869(2009). Peng, Y., et al. Am. J. Pathol. 172(1):225-235(2008). Olsen, J.V., et al. Cell 127(3):635-648(2006).
Other Notes	Small volumes of anti-NCOA4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for NCOA4 purchase	MBS6324205 is an antibody targeting NCOA4. Also known as NCOA4, CT (NCOA4, ARA70, ELE1, RFG, Nuclear receptor coactivator 4, Androgen receptor coactivator 70kD protein, Androgen receptor-associated protein of 70kD, Ret-activating protein ELE1) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NCOA4. It may not necessarily be applicable to this product.

NCBI GI #	14149617
NCBI GeneID	8031
NCBI Accession #	NP_005428.1
NCBI Related Accession #	NP_001138732.1; NP_001138734.1
UniProt Primary Accession #	Q13772
UniProt Related Accession #	Q13772
GenBank Nucleotide #	NP_005428.1
NCBI Official Full Name	nuclear receptor coactivator 4 isoform 3
NCBI Official Synonym Full Names	nuclear receptor coactivator 4
NCBI Official Symbol	NCOA4
NCBI Official Synonym Symbols	RFG; ELE1; PTC3; ARA70
UniProt Protein Name	Nuclear receptor coactivator 4
UniProt Synonym Protein Names	Androgen receptor coactivator 70 kDa protein; 70 kDa AR-activator; 70 kDa androgen receptor coactivator; Androgen receptor-associated protein of 70 kDa; Ret-activating protein ELE1
Protein Family	Nuclear receptor coactivator
UniProt Gene Name	NCOA4
UniProt Synonym Gene Names	ARA70; ELE1; RFG; NCoA-4; 70 kDa AR-activator
UniProt Entry Name	NCOA4_HUMAN
NCBI Protein Information	nuclear receptor coactivator 4
NCBI Summary for NCOA4	This gene encodes an androgen receptor coactivator. The encoded protein interacts with the androgen receptor in a ligand-dependent manner to enhance its transcriptional activity. Chromosomal translocations between this gene and the ret tyrosine kinase gene, also located on chromosome 10, have been associated with papillary thyroid carcinoma. Alternatively spliced transcript variants have been described. Pseudogenes are present on chromosomes 4, 5, 10, and 14. [provided by RefSeq, Feb 2009]

UniProt Comments for NCOA4	NCOA4: Enhances the androgen receptor transcriptional activity in prostate cancer cells. Ligand-independent coactivator of the peroxisome proliferator-activated receptor (PPAR) gamma. Defects in NCOA4 are a cause of thyroid papillary carcinoma (TPC). TPC is a common tumor of the thyroid that typically arises as an irregular, solid or cystic mass from otherwise normal thyroid tissue. Papillary carcinomas are malignant neoplasm characterized by the formation of numerous, irregular, finger-like projections of fibrous stroma that is covered with a surface layer of neoplastic epithelial cells. A chromosomal aberration involving NCOA4 is found in thyroid papillary carcinomas. Inversion inv(10)(q11.2;q11.2) generates the RET/NCOA4 (PTC3) oncogene that has been found in sporadic and radiation-associated post-Chernobyl thyroid papillary carcinomas. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Nuclear receptor co-regulator; Oncoprotein Chromosomal Location of Human Ortholog: 10q11.2 Cellular Component: nucleus Molecular Function: androgen receptor binding; transcription coactivator activity Biological Process: transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; androgen receptor signaling pathway; male gonad development; response to hormone stimulus Disease: Thyroid Carcinoma, Papillary
Research Articles on NCOA4	**1.** Tumor-type-specific NCOA4-RET or TRIM27-RET translocations are found in a subset of widely invasive salivary carcinomas with intercalated duct-like immunoprofiles.
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