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Ncoa4 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI11305

Product Information

Application	WB
Primary Accession	Q5U4H9
Other Accession	NM_001033988, NP_001029160
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Horse, Bovine
Predicted	Human, Mouse, Rat, Pig, Chicken, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70381

Additional Information

Gene ID	27057
Alias Symbol	1110034E15Rik, 4432406M01Rik, AI227008, ARA70, MGC103382, Rfg
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Ncoa4 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Ncoa4 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

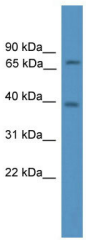
Name	Ncoa4 {ECO:0000312|MGI:MGI:1350932}
Function	Cargo receptor for the autophagic turnover of the iron- binding ferritin complex, playing a central role in iron homeostasis (PubMed:24695223, PubMed:25327288, PubMed:26776506). Acts as an adapter for delivery of ferritin to lysosomes and autophagic degradation of ferritin, a process named ferritinophagy (PubMed:24695223, PubMed:26776506). Targets the iron-binding ferritin complex to autolysosomes following starvation or iron depletion (By similarity). Ensures efficient erythropoiesis, possibly by regulating hemin-induced erythroid differentiation (PubMed:26776506). In some studies, has been shown to enhance the androgen receptor AR transcriptional activity as well as acting as ligand-independent coactivator of the peroxisome proliferator-activated receptor (PPAR) gamma (By similarity). Another study shows only weak behavior as a coactivator for the androgen receptor and no alteration of the ligand responsiveness of the AR (By

similarity). Binds to DNA replication origins, binding is not restricted to sites of active transcription and may likely be independent from the nuclear receptor transcriptional coactivator function (By similarity). May inhibit activation of DNA replication origins, possibly by obstructing DNA unwinding via interaction with the MCM2-7 complex (PubMed:24910095).

Cellular Location

Cytoplasmic vesicle, autophagosome. Autolysosome {ECO:0000250|UniProtKB:Q13772}. Nucleus {ECO:0000250|UniProtKB:Q13772} Chromosome {ECO:0000250|UniProtKB:Q13772}

Images



WB Suggested Anti-Ncoa4 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:312500
Positive Control: Mouse Heart

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