

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human NCOA2 in direct ELISAs and Western blots. In direct ELISAs, approximately 30% cross-reactivity with recombinant human (rh) NCOA1 is observed, and less than 1% cross-reactivity with rhNCOA4 and rhNCOA6 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human NCOA2 Phe1090-Leu1247 Accession # Q15596
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

NCOA2 (Nuclear receptor COActivator 2; also TIF2 and GRIP-1) is a 150-160 kDa, ubiquitously expressed, nuclear member of the SRC/p160 nuclear receptor (NR) coactivator family of proteins. As noted, and although NCOA2 is a coactivator of hormone nuclear receptors, it also contributes to HIF-1α:Arnt driven gene transcription. With respect to NRs, it not only has intrinsic activity that directly impacts hormone receptor gene activation, but also recruits additional coactivators to the NR:p160/NCOA2 complex, imparting additional complexity to target gene expression. NCOA2 binds directly to nuclear receptors via one or more LxxLL motifs that constitute an NID (NR Interaction Domain). It further uses its C-terminus to both recruit additional coactivators such as CBP and CARM1, and to modify key chromatin sites via an intrinsic HAT activity. Human NCOA2 is 1464 amino acids (aa) in length. It contains bHLH domain (aa 26-83), a PAS region (aa 119-183), four consecutive LxxLL motifs over aa 641-882, and a C-terminal LLxxLxxxL segment (aa 1079-1087). There are five utilized Ser/Thr phosphorylation sites, and three utilized acetylation sites on Lys. NCOA2 is known to undergo translocation and fuse with KAT6A/MOZ, creating a fusion product containing aa 870-1464 of NCOA2. Over aa 1090-1247, human NCOA2 shares 94% aa sequence identity with mouse NCOA2/GRIP-1.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.