

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human NCOR2 in direct ELISAs. In direct ELISAs, less than 1% cross-reactivity with recombinant human NCOR1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human NCOR2 Lys2268-Arg2449 Accession # Q9Y618
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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.

Immunohistochemistry 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

NCOR2 (Nuclear receptor Co-Repressor 2; also TRAC-2, SMRTα and CTG26) is a 265-275 kDa member of the N-CoR family of molecules. NCOR2 is a transcriptional repressor. It forms a complex with Class I and II HDACs (particularly HDAC3) plus TBL1 and GPS2, and interacts with a ligand-independent T3R:RXR heterodimer bound to select gene promoters. The HDACs deacetylate lysines in histones, promoting gene repressor binding. Human NCOR2 is 2525 amino acids (aa) in length. It possesses an N-terminal coiled-coil region (aa 174-215), one DNA-binding SANT domain (aa 427-478), a second coiled-coil region (aa 522-561), and a second SANT domain (aa 610-661). There are poly-Gly, -Gln, -Pro and -Lys motifs, and at least five acetylated lysine residues. There are also at least 31 Ser, three Thr, and one Tyr utilized phosphorylation sites that may regulate complex dissociation. There are also multiple splice variants. One isoform (SMRT₁) contains a deletion of aa 724-740 and 2361-2406; a second isoform (SMRT₂) contains only a deletion of aa 724-740; a third isoform (hSMRT) shows a deletion of aa 1034-1041; and a fourth isoform (TRAC-1) possesses an alternative start site at Met 1711 coupled to a deletion of aa 2361-2406. Over aa 2268-2449, human NCOR2 shares 95% aa identity with mouse NCOR2.

PRODUCT SPECIFIC NOTICES

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