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NCoR2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55462

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9Y618
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	273657
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NCoR2
Epitope Specificity	2201-2525/2525
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
SIMILARITY	Belongs to the N-CoR nuclear receptor corepressors family.Contains 2 SANT domains.
SUBUNIT	Interacts with BCL6, HDAC7 and C1D. Interacts with NR4A2; this interaction increases in the absence of PITX. Forms a large corepressor complex that contains SIN3A/B and histone deacetylases HDAC1 and HDAC2. This complex associates with the thyroid (TR) and the retinoid acid receptors (RAR) in the absence of ligand, and may stabilize their interaction with TFIIB. Interacts directly with RARA in the absence of ligand; the interaction represses RARA activity. Interacts (isoform SRMT) with HDAC10. Interacts with MINT. Component of the N-Cor repressor complex, at least composed of NCOR1, NCOR2, HDAC3, TBL1X, TBL1R, CORO2A and GPS2. Interacts with CBFA2T3 and ATXN1L. Interacts with RARB; the interaction is weak and does not repress RARB transactivational activity.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	NCoR2 (Nuclear receptor corepressor 2) mediates the transcriptional repression activity of some nuclear receptors by promoting chromatin condensation, thus preventing access of the basal transcription. Isoform 1 and isoform 5 have different affinities for different nuclear receptors.

Additional Information

Gene ID	9612
Other Names	Nuclear receptor corepressor 2, N-CoR2, CTG repeat protein 26, SMAP270, Silencing mediator of retinoic acid and thyroid hormone receptor, SMRT, T3 receptor-associating factor, TRAC, Thyroid-, retinoic-acid-receptor-associated corepressor, NCOR2 (HGNC:7673), CTG26

Target/Specificity	Ubiquitous. High levels of expression are detected in lung, spleen and brain.
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	NCOR2 {ECO:0000303|PubMed:22230954, ECO:0000312|HGNC:HGNC:7673}
Function	Transcriptional corepressor that mediates the transcriptional repression activity of some nuclear receptors by promoting chromatin condensation, thus preventing access of the basal transcription (PubMed:10077563, PubMed:10097068, PubMed:18212045, PubMed:20812024, PubMed:22230954, PubMed:23911289). Acts by recruiting chromatin modifiers, such as histone deacetylases HDAC1, HDAC2 and HDAC3 (PubMed:22230954). Required to activate the histone deacetylase activity of HDAC3 (PubMed:22230954). Involved in the regulation BCL6- dependent of the germinal center (GC) reactions, mainly through the control of the GC B-cells proliferation and survival (PubMed:18212045, PubMed:23911289). Recruited by ZBTB7A to the androgen response elements/ARE on target genes, negatively regulates androgen receptor signaling and androgen-induced cell proliferation (PubMed:20812024).
Cellular Location	Nucleus.
Tissue Location	Ubiquitous (PubMed:10077563). High levels of expression are detected in lung, spleen and brain (PubMed:10077563)