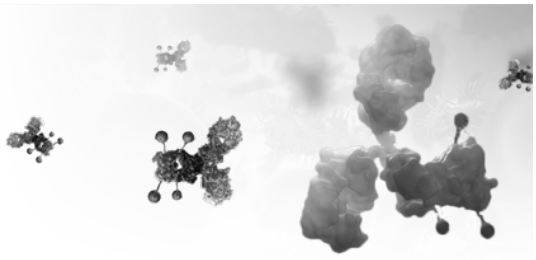

NCOA2 blocking peptide (DAG-P1622)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The NCOA2 gene encodes nuclear receptor coactivator 2, which aids in the function of nuclear hormone receptors. Nuclear hormone receptors are conditional transcription factors that play important roles in various aspects of cell growth, development, and homeostasis by controlling expression of specific genes. Members of the nuclear hormone receptor superfamily, which includes the 5 steroid receptors and class II nuclear receptors (see below), are structurally characterized by 3 distinct domains: an N-terminal transcriptional activation domain, a central DNA-binding domain, and a C-terminal hormone-binding domain. Before the binding of hormone, steroid receptors, which are sometimes called class I of the nuclear hormone receptor family, remain inactive in a complex with heat-shock protein-90 (MIM 140571) and other stress family proteins. Binding of hormone induces critical conformational changes in steroid receptors that cause them to dissociate from the inhibitory complex, bind as homodimers to specific DNA enhancer elements associated with target genes, and modulate that genes transcription. After binding to enhancer elements, transcription factors require transcriptional coactivator proteins to mediate their stimulation of transcription initiation (Hong et al., 1997 [PubMed 9111344]).[supplied by OMIM, Nov 2010]
Conjugate	Unconjugated
Applications	BL
Sequence Similarities	Belongs to the SRC/p160 nuclear receptor coactivator family.Contains 1 bHLH (basic helix-loop-helix) domain.Contains 1 PAS (PER-ARNT-SIM) domain.
Format	Liquid
Preservative	None
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Gene Name	NCOA2 nuclear receptor coactivator 2 [Homo sapiens (human)]
Official Symbol	NCOA2
Synonyms	NCOA2; nuclear receptor coactivator 2; SRC2; TIF2; GRIP1; KAT13C; NCoA-2; bHLHe75; hTIF2; transcriptional intermediary factor 2; class E basic helix-loop-helix protein 75; glucocorticoid receptor-interacting protein-1;
Entrez Gene ID	10499
mRNA Refseq	NM_006540.2
Protein Refseq	NP_006531.1
UniProt ID	Q15596
Chromosome Location	8q13.3
Pathway	Activation of Gene Expression by SREBP (SREBF), organism-specific biosystem; Adipogenesis, organism-specific biosystem; Androgen receptor signaling pathway, organism-specific biosystem; BMAL1:CLOCK/NPAS2 Activates Circadian Expression, organism-specific biosystem; Circadian Clock, organism-specific biosystem; Circadian Repression of Expression by REV-ERBA, organism-specific biosystem; Coregulation of Androgen receptor activity, organism-specific biosystem; Corticotropin-releasing hormone, organi
Function	chromatin binding; histone acetyltransferase activity; ligand-dependent nuclear receptor binding; ligand-dependent nuclear receptor transcription coactivator activity; nuclear hormone receptor binding; protein binding; protein dimerization activity; signa

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