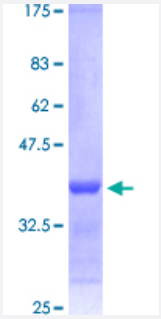
RARA (Human) Recombinant Protein (Q02)

Catalog # H00005914-Q02 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human RARA partial ORF (NP_000955, 169 a.a. - 235 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	VPKPECSESYTLTPEVGELIEKVRKAHQETFPALCQLGKYTTNNSSEQRVSLDIDLWDKFSELSTKC
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	33
Interspecies Antigen Sequence	Mouse (99); Rat (100)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — RARA

Entrez GeneID	5914
GeneBank Accession#	NM_000964
Protein Accession#	NP_000955
Gene Name	RARA
Gene Alias	NR1B1, RAR
Gene Description	retinoic acid receptor, alpha
Omim ID	180240
Gene Ontology	Hyperlink
Gene Summary	Retinoid signaling is transduced by 2 families of nuclear receptors, retinoic acid receptor (RAR) a nd retinoid X receptor (RXR; see MIM 180245), which form RXR/RAR heterodimers. In the absen ce of ligand, DNA-bound RXR/RARA represses transcription by recruiting the corepressors NCO R1 (MIM 600849), SMRT (NCOR2; MIM 600848), and histone deacetylase (see MIM 601241). W hen ligand binds to the complex, it induces a conformational change allowing the recruitment of co activators, histone acetyltransferases (see MIM 603053), and the basic transcription machinery. T ranslocations that always involve rearrangement of the RARA gene are a cardinal feature of acute promyelocytic leukemia (APL; MIM 612376). The most frequent translocation is t(15,17)(q21;q22) , which fuses the RARA gene with the PML gene (MIM 102578) (Vitoux et al., 2007 [PubMed 174 68032]).[supplied by OMIM
Other Designations	OTTHUMP00000164454|OTTHUMP00000164456|Retinoic acid receptor, alpha polypeptide|nucl eophosmin-retinoic acid receptor alpha fusion protein NPM-RAR long form

Pathway

- Acute myeloid leukemia
- Pathways in cancer

Disease

- Alcoholism
- Alzheimer disease
- Attention Deficit Disorder with Hyperactivity
- Autistic Disorder
- Bipolar Disorder
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Diabetes Complications
- Diabetes Mellitus
- Disease Models
- Drug Toxicity
- Edema
- Genetic Predisposition to Disease
- Hypercholesterolemia
- Liver Cirrhosis
- Mental Disorders
- Metabolic Syndrome X
- Myopia
- Neoplasms
- Osteoporosis
- Schizophrenia