

Recombinant Human DUOXA1 Protein, GST-tagged

Cat. No. DUOXA1-2916H **Lot. No.** (See product label)

SPECIFICATION

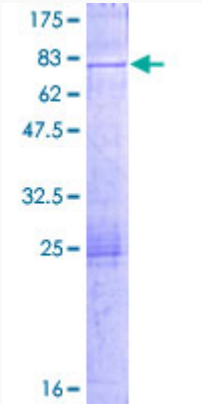
Product Overview	Human DUOXA1 full-length ORF (NP_653166.2, 1 a.a. - 483 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	Dual oxidases DUOX1 and DUOX2 are NADPH oxidases which are involved in hydrogen peroxide production necessary for thyroid hormonogenesis. They form a heterodimer with specific maturation factors DUOXA1 and DUOXA2, respectively, which is essential for the maturation and function of the DUOX enzyme complexes. This gene encodes the DUOX1 activator or maturation factor DUOXA1. Rat studies identified a bidirectional promoter which controls the transcription of the DUOX1 and DUOXA1 genes. This protein is cotransported to the cell surface when coexpressed with DUOX1 and is retained in the endoplasmic reticulum when expressed without DUOX1 protein. The expression of this gene or the DUOX1 gene is not suppressed by thyroglobulin (Tg), a macromolecular precursor in thyroid hormone synthesis, while the expression of the DUOX2 and DUOXA2 are significantly suppressed by the Tg. This protein is also a p53-regulated neurogenic factor involved in p53 dependent neuronal differentiation. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2013]
Molecular Mass	79.9 kDa

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AA Sequence	MATLGHTFPFYAGPKPTFPMDDTLASIIMIFLTALATFIVILPGIRGKTRLFWLLRVVTSL FIGAAILAVNFSSEWSVGQVSTNTSYKAFSSEWISADIGLQVGLGGVNITLTGTPVQQ LNETINYNEEFTWRLGENYAEEYAKALEKGLPDPVLYLAEKFTPRSPCGLYRQYRLA GHYTSAMLWVAFLCWLLANVMLSMPVLVYGGYMLLATGIFQLLALLFFSMATSLTSP CPLHLGASVLHTHHGPAFWITLTTGLLCVLLGLAMAVAHMQPHRLKAFFNQSVDE DPMLEWSPEEGLLSPRYRSMADSPKSQDIPLSEASSTKAYYRPRRLSLVPADVRG LAPAALSALPGALLAQAWRALLPGLRCPKAGKESRLGPPHSPWRFGECEERWA EHTGDSRPLRGRGTGRLWRWGSKERRACGVRAMLPRLVSNGLKRPSCLDLPK CWDYRRDARAFFHLLLEPTPCVTSRHTPLI
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	DUOXA1 dual oxidase maturation factor 1 [Homo sapiens]
Official Symbol	DUOXA1
Synonyms	DUOXA1; dual oxidase maturation factor 1; FLJ32334; mol; NIP; NUMBIP; dual oxidase activator 1; numb-interacting protein; dual oxidase maturation factor 1 beta; dual oxidase maturation factor 1 alpha; dual oxidase maturation factor 1 delta; dual oxidase maturation factor 1 gamma; homolog of Drosophila Numb-interacting protein;

Gene ID	90527
mRNA Refseq	NM_144565
Protein Refseq	NP_653166
MIM	612771
UniProt ID	Q1HG43
Quality Control Testing	 12.5% SDS-PAGE Stained with Coomassie Blue.