

Product datasheet for TP323975

DUOX1 (NM_017434) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Purified recombinant protein of Homo sapiens dual oxidase 1 (DUOX1), transcript variant 1, 20 µg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC223975 representing NM_017434
Red=Cloning site Green=Tags(s)

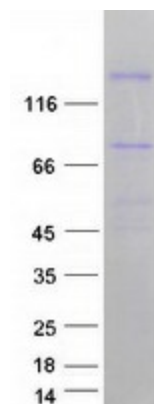
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KRVIATYQNIAYVEWLPSFLQKTLPEYTYRPFDPISSEFVAASEQFLSTMVPPGVYMRNASCHFQGV
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ASCLQRGRDLGLPSYTKARAALGLSPITRWQDINPALSRSNDTVLEATAALYNQDLSWLELLPGGLLESH
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DKEELTWEDFHMLRDHNSLRFTQLCVKGVVPEVIKDLRRASYISQDMICPSPRVSARCSRSDIETE
LTPQRLQCPMDTDPPEIRRRFGKVTFSQPLLFEAHREKFQRSLHQTVQQFKRFIENYRRHIGCVAV
FYAAGGLFLERAYYFAAAHTGITDTRVGIILSRGTAASISFMFSYILLTMCRNLITFLRETFLNRY
VPFDAAVDFHRLIASTAVLTVLHSHVGHVNVYLFSSPLSVLSCLFPGLFHDDGSEFPQKYWWFFQTV
PGLTGVLLLLILAIMYVFASHHFRRRSFRGFWLTHHLYILLYVLLIIHGSFALIQLPRFHIFLVPAAIY
GGDKLVLSRKKVEISVKAELLPSGVTHLRFQRPQGFEYKSGQWVRIACLALGTTEYHPFTLSAPHED
TLSLHIRAAGPWTRLREIYSAPTGDRCARYPKLYLDGPFGEHQEWHKFEVSVLVGGIGVTPFASILK
DLVFKSSVSCQVFCCKIYFIWVTRTQRQFEWLADIIEVEENDHQDLVSVHIYITQLAEKFDLRTTMLYI
CERHFQKVLNRSFLTGLRSITHFGRPPFEPFFNSLQEVHPQVRKIGVFSCGPPGMTKNVEKACQLINRQD
RTHFSHHYENF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Tag:	C-Myc/DDK
Predicted MW:	177.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_059130
Locus ID:	53905
UniProt ID:	Q9NRD9
RefSeq Size:	5693
Cytogenetics:	15q21.1
RefSeq ORF:	4653
Synonyms:	LNOX1; NOXEF1; THOX1
Summary:	<p>The protein encoded by this gene is a glycoprotein and a member of the NADPH oxidase family. The synthesis of thyroid hormone is catalyzed by a protein complex located at the apical membrane of thyroid follicular cells. This complex contains an iodide transporter, thyroperoxidase, and a peroxide generating system that includes proteins encoded by this gene and the similar DUOX2 gene. This protein is known as dual oxidase because it has both a peroxidase homology domain and a gp91phox domain. This protein generates hydrogen peroxide and thereby plays a role in the activity of thyroid peroxidase, lactoperoxidase, and in lactoperoxidase-mediated antimicrobial defense at mucosal surfaces. Two alternatively spliced transcript variants encoding the same protein have been described for this gene. [provided by RefSeq, Jul 2012]</p>
Protein Families:	Druggable Genome, Transmembrane

Product images:

Coomassie blue staining of purified DUOX1 protein (Cat# TP323975). The protein was produced from HEK293T cells transfected with DUOX1 cDNA clone (Cat# [RC223975]) using MegaTran 2.0 (Cat# [TT210002]).