

Product datasheet for **TP323975M**

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, 100 µg

Species: Human

Expression Host: HEK293T



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Expression cDNA >RC223975 representing NM_017434
Clone or AA **Red**=Cloning site **Green**=Tags(s)
Sequence:

MGFCLALAWTLLVGAWTPLGAQNPISWEVQRFDGWYNNLMEHRWGSKGSRLQRLVPASYADGVYQPLGEP
 HLPNPRDLSNTISRGPAGLASLRNRTVLGVFFGYHVLSDLVSVETPGCPAEFLNIRIPPGDPMFDPDQRG
 DVVLPFQRSRWDPETGRSPSNRPDPANQVTGWLDGSAIYGSSHSWSDALRSFSRGLASGPDPAFPRDSQ
 NPLLMWAAPDPATGQNGPRGLYAFGAERGNREPFLQALGLLWFRYHNLWAQRLARQHPDWEDEELFQHAR
 KRVIATYQNIAVYEWLPSFLQKTLPEYTYRPFDPISSEFVAASEQFLSTMVPPGVYMRNASCHFQGV
 INRNSSVSRALRVCNSYWSREHPSLQSAEDVDALLLGMASQIAEREDHVLVEDVRDFWPGPLKFSRTDHL
 ASCLQRGRDLGLPSYTKARAALGLSPITRWQDINPALSRSNDTVLEATAALYNQDLSWLELLPGGLLESH
 RDPGPLFSTIVLEQFVRLRDGDYWFENTRNLGFSKKEIEEIRNTTLQDVLVAVINIDPSALQPNVFWWH
 KGDPCPQPRQLSTEGLPARAPSVRDYFEGSGFGFVGTIGTLCCFPLVSLLSAWIVARLRMRNFKRLQGG
 DRQSIVSEKLVGGMEALEWQGHKEPCRPVLVYLQPGQIRWDGRLTVLRTIQLQPPQKVNFLSSNRGR
 TLLLKIPKEYDLVLLFNLEERQALVENLRGALKESGLSIQEWELREQELMRAAVTREQRHLLLETFRH
 LFSQVLDINQADAGTLPDSSQKVREALTCELSRAEFAESLGLKPQDMFVESMFLADKDGNGYLSFREF
 LDILVFMKGSPEEKSRMLFRMYDFDGNGLSKDEFIRMLRSFIEISNNCLSKAQLAEVVESEMFRESGFQ
 DKEELTWEDFHMLRDHNSLRFTQLCVKGVVEPEVIKDLRASYISQDMICSPRVSARCSRSDIETE
 LTPQRLQCPMDTDPPEIRRRFGKVTFSQPLLFEAHREKFRSCLHQTVQQFKRIENYRRHIGCVAV
 FYAAGGLFLERAYYFAAAHHTGITDTRVGIILSRGTAASISFMFSYILLMCRNLITFLRETFLNRY
 VPFDAAVDFHRLIASTAVLTVLHVSVGHVNVYLSISPLSVLSCLFPGLFHDDGSEFPQKYWWFFQTV
 PGLTGVVLLLILAIMYVFASHHFRRRSFRGFWLTHHLYILLYVLLIIHGSFALIQLPRFHIFFLVPAIIY
 GGDKLVLSLRKKVEISVKAELLPSGVTHLRFQRPQGFYKSGQWVRIACLALGTTEYHPFTLTSAPHED
 TLSLHIRAAGPWTRLREIYSAPTGDRCARYPKLYLDGPFGEHGEWHKFEVSVLVGGGIGVTPFASILK
 DLVFKSSVSCQVFCCKIYFIWVTRTQRQFEWLADIIREVEENDHQDLVSVHIYITLQAEKFDLRTTMLYI
 CERHFQKVLNRSFLTGLRSITHFGRPPFEPFFNSLQEVHPQVRKIGVFSCGPPGMTKNVEKACQLINRQD
 RTHFSHHYENF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

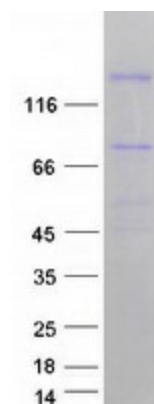
Tag: C-Myc/DDK
Predicted MW: 177.1 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation: Recombinant protein was captured through anti-DDK affinity 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: 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]

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]).