

Product datasheet for PH302892

OriGene Technologies, Inc.

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HLA DOB (HLA-DOB) (NM_002120) Human Mass Spec Standard

Product data:

Product Type: Mass Spec Standards

Description: HLA MS Standard C13 and N15-labeled recombinant protein (NP_002111)

Species:HumanExpression Host:HEK293

Expression cDNA Clone

RC202892

or AA Sequence: Predicted MW:

30.8 kDa

Protein Sequence: >RC202892 protein sequence

Red=Cloning site Green=Tags(s)

MGSGWVPWVVALLVNLTRLDSSMTQGTDSPEDFVIQAKADCYFTNGTEKVQFVVRFIFNLEEYVRFDSDV GMFVALTKLGQPDAEQWNSRLDLLERSRQAVDGVCRHNYRLGAPFTVGRKVQPEVTVYPERTPLLHQHNL LHCSVTGFYPGDIKIKWFLNGQEERAGVMSTGPIRNGDWTFQTVVMLEMTPELGHVYTCLVDHSSLLSPV SVEWRAQSEYSWRKMLSGIAAFLLGLIFLLVGIVIQLRAQKGYVRTQMSGNEVSRAVLLPQSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration: >0.05 μg/μL as determined by microplate BCA method

Labeling Method: Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3

Storage: Store at -80°C. Avoid repeated freeze-thaw cycles.

Stability: Stable for 3 months from receipt of products under proper storage and handling conditions.

RefSeq: NP 002111

RefSeq Size: 1388 RefSeq ORF: 819

Synonyms: DOB; HLA_DOB

Locus ID: 3112

UniProt ID: P13765, Q5QNS2





Cytogenetics: 6p21.32

Summary: HLA-DOB belongs to the HLA class II beta chain paralogues. This class II molecule is a

> heterodimer consisting of an alpha (DOA) and a beta chain (DOB), both anchored in the membrane. It is located in intracellular vesicles. DO suppresses peptide loading of MHC class II molecules by inhibiting HLA-DM. Class II molecules are expressed in antigen presenting cells (APC: B lymphocytes, dendritic cells, macrophages). The beta chain is approximately 26-28 kDa and its gene contains 6 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the two extracellular domains, exon 4 encodes the transmembrane domain and exon

5 encodes the cytoplasmic tail. [provided by RefSeq, Jul 2008]

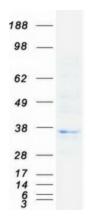
Protein Families: Transmembrane

Protein Pathways: Allograft rejection, Antigen processing and presentation, Asthma, Autoimmune thyroid

disease, Cell adhesion molecules (CAMs), Graft-versus-host disease, Systemic lupus

erythematosus, Type I diabetes mellitus, Viral myocarditis

Product images:



Coomassie blue staining of purified HLA-DOB protein (Cat# [TP302892]). The protein was produced from HEK293T cells transfected with HLA-DOB cDNA clone (Cat# [RC202892]) using

MegaTran 2.0 (Cat# [TT210002]).