OLA1 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	OLA1, Lysate
Full Product Name	Human OLA1 Protein Lysate
Product Gene Name	OLA1 lysate
Product Synonym Names	OLA1; DOC45; GBP45; GTBP9; GTPBP9; PTD004
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	47.3 kDa (420aa), confirmed by MALDI-TOF
OMIM	611175
3D Structure	ModBase 3D Structure for Q9NTK5
Related Product Information for OLA1 lysate	Human OLA1 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of OLA1 lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for OLA1 purchase	MBS8416442 is a lysate targeting OLA1. Also known as Human OLA1 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for OLA1. It may not necessarily be applicable to this product.

NCBI GI #	58761500
NCBI GeneID	29789
NCBI Accession #	NP_037473
UniProt Primary Accession #	Q9NTK5
UniProt Secondary Accession #	Q5BJD7; Q8NCI8; Q96CU1; Q96SV2; Q9P1D3; Q9UNY9; Q9Y6G4; D7EHM2
UniProt Related Accession #	Q9NTK5
GenBank Nucleotide #	NM_013341
NCBI Official Full Name	obg-like ATPase 1 isoform 1
NCBI Official Synonym Full Names	Obg like ATPase 1
NCBI Official Symbol	OLA1
NCBI Official Synonym Symbols	DOC45; GBP45; GTBP9; GTPBP9; PTD004
UniProt Protein Name	Obg-like ATPase 1
UniProt Synonym Protein Names	DNA damage-regulated overexpressed in cancer 45; DOC45; GTP-binding protein 9

Protein Family	Obg-like ATPase
UniProt Gene Name	OLA1
UniProt Synonym Gene Names	DOC45
UniProt Entry Name	OLA1_HUMAN
NCBI Protein Information	obg-like ATPase 1
NCBI Summary for OLA1	This gene encodes a member of the GTPase protein family. The encoded protein interacts with breast cancer-associated gene 1 (BRCA1) and BRCA1-associated RING domain protein (BARD1), and is involved in centrosome regulation. Overexpression of this gene has been observed in multiple types of cancer and may be associated with poor survival. Pseudogenes of this gene have been defined on chromosomes 17 and 22. [provided by RefSeq, Jun 2016]
UniProt Comments for OLA1	OLA1: Hydrolyzes ATP, and can also hydrolyze GTP with lower efficiency. Has lower affinity for GTP. Belongs to the GTP1/OBG family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Nucleolus; EC 3.6.3.-; Hydrolase Chromosomal Location of Human Ortholog: 2q31.1 Cellular Component: centrosome; membrane; cytoplasm; nucleolus Molecular Function: protein binding; GTP binding; metal ion binding; ATPase activity; ribosome binding; ATP binding; ribosomal large subunit binding Biological Process: metabolic process
Research Articles on OLA1	**1.** No germline mutations were found in the OLA1 gene in in patients with BRCA1/2 mutation-negative suspected hereditary breast and ovarian cancer.
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