

Product datasheet for PH309548

Peroxiredoxin 2 (PRDX2) (NM_181738) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PRDX2 MS Standard C13 and N15-labeled recombinant protein (NP_859428)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209548
Predicted MW:	15.6 kDa
Protein Sequence:	>RC209548 representing NM_181738 Red=Cloning site Green=Tags(s) MASGNARIGKPAPDFKATAVVDGAFKEVKLSDYKGKYVVLFFYPDLDFVCPTEIIAFSNRAEDFRKLGCEVLGVSVD SQFTHLAWYEQGPKREVA AKLTPSGPSSVASWPLLNLWNLRFPIVKIMETLPPKSLRMMTVISI TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_859428
RefSeq Size:	710
RefSeq ORF:	426
Synonyms:	NKEFB; PRP; PRX2; PRXII; PTX1; TDPX1; TPX1; TSA
Locus ID:	7001
UniProt ID:	P32119



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Cytogenetics: 19p13.13

Summary: This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein plays an antioxidant protective role in cells, and it may contribute to the antiviral activity of CD8(+) T-cells. The crystal structure of this protein has been resolved to 2.7 angstroms. This protein prevents hemolytic anemia from oxidative stress by stabilizing hemoglobin, thus making this gene a therapeutic target for patients with hemolytic anemia. This protein may have a proliferative effect and play a role in cancer development or progression. Related pseudogenes have been identified on chromosomes 5, 6, 10 and 13. [provided by RefSeq, Mar 2013]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified PRDX2 protein (Cat# [TP309548]). The protein was produced from HEK293T cells transfected with PRDX2 cDNA clone (Cat# [RC209548]) using MegaTran 2.0 (Cat# [TT210002]).