

Product datasheet for PH304872

XPA (NM_000380) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	XPA MS Standard C13 and N15-labeled recombinant protein (NP_000371)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204872
Predicted MW:	31.4 kDa
Protein Sequence:	>RC204872 protein sequence Red=Cloning site Green=Tags(s)
	<p>MAAADGALPEAAALEQPAELPASVRASIERKRQRALMLRQARLAARPYSATAAAATGGMANVKAAPKIID TGGGFILLLLLLQKIGKVVHQPGPVMEFDYVICCECGKEFMDSYLMNHFDLPTCDNCRDADDKHKLIT KTEAKQEYLLKDCDLEKREPPLKFIVKKNPHHSQWDMKLYLKLQIVKRSLEVWGSQEALLEEAKVQRQEN REKMKQKKFDKKVKELRRAVRSSVWKRETI VHQHEYGPEENLEDDMYRKTCTMCGHELTYEKM</p> <p>TRTRPLEQKLI SEEDLAANDILDYKDDDDKV</p>
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_000371
RefSeq Size:	1491
RefSeq ORF:	819
Synonyms:	XP1; XPAC
Locus ID:	7507
UniProt ID:	P23025



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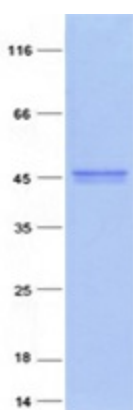
Cytogenetics: 9q22.33

Summary: This gene encodes a zinc finger protein plays a central role in nucleotide excision repair (NER), a specialized type of DNA repair. NER is responsible for repair of UV radiation-induced photoproducts and DNA adducts induced by chemical carcinogens and chemotherapeutic drugs. The encoded protein interacts with DNA and several NER proteins, acting as a scaffold to assemble the NER incision complex at sites of DNA damage. Mutations in this gene cause Xeroderma pigmentosum complementation group A (XP-A), an autosomal recessive skin disorder featuring hypersensitivity to sunlight and increased risk for skin cancer. [provided by RefSeq, Aug 2017]

Protein Families: Druggable Genome

Protein Pathways: Nucleotide excision repair

Product images:



Coomassie blue staining of purified XPA protein (Cat# [TP304872]). The protein was produced from HEK293T cells transfected with XPA cDNA clone (Cat# [RC204872]) using MegaTran 2.0 (Cat# [TT210002]).