Datasheet for ABIN1686718

HOPX Protein (His tag)

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Overview

Quantity:	100 µg
Target:	HOPX
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HOPX protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), Functional Studies (Func)

Product Details

Sequence:	MGHHHHHHME QVNELKEKGN KALSVGNIDD ALQCYSEAIK LDPHNHVLYS NRSAAYAKKG DYQKAYEDGC KTVDLKPDWG KGYSRKAAAL EFLNRFEEAK RTYEEGLKHE ANNPQLKEGL QNMEARLAER KFMNPFNMPN LYQKLESDPR TRTLLSDPTY RELIEQLRNK PSDLGTKLQD PRIMTTLSVL LGVDLGSMDE EEEIATPPPP PPPKKETKPE PMEEDLPENK KQALKEKELG NDAYKKKDFD TALKHYDKAK ELDPTNMTYI TNQAAVYFEK GDYNKCRELC EKAIEVGREN REDYRQIAKA YARIGNSYFK EEKYKDAIHF YNKSLAEHRT PDVLKKCQQA EKILKEQERL AYINPDLALE EKNKGNECFQ KGDYPQAMKH YTEAIKRNPK DAKLYSNRAA CYTKLLEFQL ALKDCEECIQ LEPTFIKGYT RKAAALEAMK DYTKAMDVYQ KALDLDSSCK EAADGYQRCM MAQYNRHDSP EDVKRRAMAD PEVQQIMSDP AMRLILEQMQ KDPQALSEHL KNPVIAQKIQ KLMDVGLIAI R
Specificity:	~63 kDa
Characteristics:	4 µM ABIN1686717, when added to 2 µM SPR-300 (Aha1)-activated Hsp90 (2 µM, His-tagged Hsp90 beta) in 33 mM Hepes pH 7.2, 30 mM NaCl, 5 mM MgCl2, 1 mM DTT, 1.5 mM ATP in a

Product Details

	100 µL reaction at 37 degrees C, eliminated all Aha1-mediated ATPase stimulation as well as intrinsic Hsp90 ATPase activity. (This is an enzyme-linked ATP regeneration assay tracking loss of NADH absorbance at 340nm).
Purification:	Affinity Purified
Purity:	>90%

Target Details

Target:	HOPX
Alternative Name:	HOP (HOPX Products)
Background:	Hop (HSP70/HSP90 Organizing Protein), or Stress-induced Phosphoprotein 1 (STI1) as it is also known, is a 60 kDa protein that belongs to the large group of co-chaperones which regulate and assist the major chaperones. It is located in diverse cellular regions and can move between the cytoplasm and the nucleus. It functions to reversibly link together the protein chaperones HSP70 and HSP90. HOP contains three tetratricopeptide repeat (TPR) domains, TPR1, TPR2a and TPR2b. HSP70 binding has been localized to TRP1 and sp90 binding have been localized to TPR2a (1). It has also been found to modulate the chaperone activities of the linked proteins and possible interacts with other chaperones and proteins. It has also been found to participate in other complexes besides the HSP70/HSP90 one (2). HOP is closely related to human 63 kDa protein that is sensitive to simian virus SV40 transformation, and is related to the yeast heat-shock- responsive STI1 gene product (3, 4).
Molecular Weight:	approx. 63 kDa
Gene ID:	10963
NCBI Accession:	NP_006810
UniProt:	P31948
Pathways:	Regulation of Muscle Cell Differentiation

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	This product has been certified >90% pure using SDS PAGE analysis. 4uM ABIN1686717, when added to 2uM SPR-300 (Aha1)-activated HSP90 (2uM, His-tagged HSP90 beta) in 33mM Hepes pH7.2, 30mM NaCl, 5mM MgCl2, 1mM DTT, 1.5mM ATP in a 100ul reaction at 37 degrees C,

Application Details

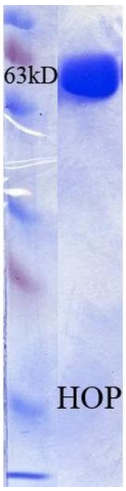
	eliminated all Aha1-mediated ATPase stimulation as well as intrinsic HSP90 ATPase activity. (This is an enzyme-linked ATP regeneration assay tracking loss of NADH absorbance at 340nm).
Restrictions:	For Research Use only

Handling

Concentration:	Lot specific
Buffer:	20 mM HEPES buffer pH 7.2, 80 mM NaCl, 10 % glycerol
Storage:	-20 °C

Publications

Product cited in:	Jowett: "Safe Motherhood interventions in low-income countries: an economic justification and evidence of cost effectiveness." in: **Health policy (Amsterdam, Netherlands)**, Vol. 53, Issue 3, pp. 201-28, (2000) (PubMed). Hagen, Silva, Amorim, Hagedoorn, Wassink, Haaker, Robb: "Novel structure and redox chemistry of the prosthetic groups of the iron-sulfur flavoprotein sulfide dehydrogenase from Pyrococcus furiosus; evidence for a [2Fe-2S] cluster with Asp(Cys)3 ligands." in: **Journal of biological inorganic chemistry : JBIC : a publication of the Society of Biological Inorganic Chemistry**, Vol. 5, Issue 4, pp. 527-34, (2000) (PubMed). Wen, Xu, Mais, Goldman, McDonnell: "The A and B isoforms of the human progesterone receptor operate through distinct signaling pathways within target cells." in: **Molecular and cellular biology**, Vol. 14, Issue 12, pp. 8356-64, (1994) (PubMed). McGuire: "Prognostic factors in primary breast cancer." in: **Cancer surveys**, Vol. 5, Issue 3, pp. 527-36, (1987) (PubMed). Bach: "Markets in kidneys." in: **Lancet**, Vol. 2, Issue 8411, pp. 1102, (1984) (PubMed).



SDS-PAGE

Image 1. SDS-PAGE of his-tagged human HOP protein (ABIN1686717, ABIN1686718 and ABIN1686719).

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