

MASCOT SCIENCE Mascot Search Results

Protein View

Match to: **1433G_HUMAN** Score: **108** Expect: **3.2e-07**
14-3-3 protein gamma OS=Homo sapiens GN=YWHAG PE=1 SV=2

Nominal mass (M_r): **28456**; Calculated pI value: **4.80**
NCBI BLAST search of [1433G_HUMAN](#) against nr
Unformatted [sequence string](#) for pasting into other applications

Taxonomy: [Homo sapiens](#)

Fixed modifications: Carbamidomethyl (C)
Variable modifications: Oxidation (M)
Cleavage by Trypsin: cuts C-term side of KR unless next residue is P
Number of mass values searched: **28**
Number of mass values matched: **14**
Sequence Coverage: **45%**

Matched peptides shown in **Bold Red**

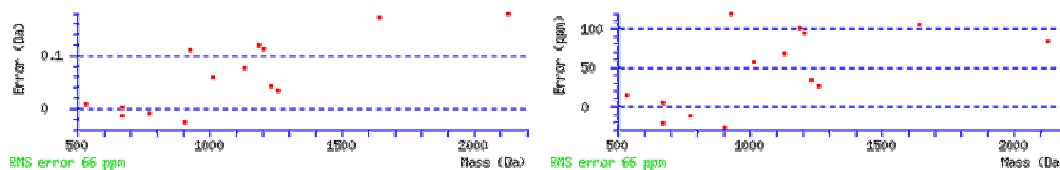
1 MVDREQLVQK ARLAEQAERY **DDMAAAMKNV TELNEPLSNE ERNLLSVAYK**
51 NVVGARRSSW RVISSIEQKT SADGNEKKIE **MVRAYREKIE KELEAVCQDV**
101 LSLLDNYLIK NCSETQYESK **VFYLRMKGDY YRYLAEVATG EKRA**TVVVESS
151 EKAYSEAHEI SKEHMQPTHP IRLGLALNYS VFYYEIQNAP EQACHLAK**TA**
201 FDDAIAELDT LNEDSYKDST LIMQLLRDNL TLWTSDDQDD DGEGGN

Show predicted peptides also

Sort Peptides By ☒ Residue Number ☐ Increasing Mass ☐ Decreasing Mass

Start - End	Observed	Mr (expt)	Mr (calc)	Delta	Miss	Sequence
1 - 10	1261.6900	1260.6827	1260.6496	0.0331	1	-.MVDREQLVQK.A Oxidation (M)
20 - 28	1015.4800	1014.4727	1014.4150	0.0577	0	R.YDDMAAMK.N
29 - 42	1643.9600	1642.9527	1642.7798	0.1729	0	K.NVTELNEPLSNEER.N
43 - 50	907.5000	906.4927	906.5174	-0.0247	0	R.NLLSVAYK.N
58 - 61	535.2700	534.2627	534.2550	0.0077	0	R.SSWR.V
78 - 83	775.4400	774.4327	774.4422	-0.0094	1	K.KIEMVR.A
121 - 125	669.4000	668.3927	668.3897	0.0030	0	K.VFYLR.M
126 - 132	932.5400	931.5327	931.4222	0.1106	1	K.MKGDYYR.Y
128 - 132	673.2800	672.2727	672.2867	-0.0140	0	K.GDYLR.Y
133 - 143	1236.7000	1235.6927	1235.6510	0.0418	1	R.YLAEVATGEKR.A
153 - 162	1134.6200	1133.6127	1133.5353	0.0775	0	K.AYSEAHEISK.E
199 - 217	2131.1500	2130.1427	2129.9641	0.1787	0	K.TAFDDAIAELDTLNEDSYK.D
218 - 227	1189.7800	1188.7727	1188.6536	0.1191	0	K.DSTLIMQLLR.D
218 - 227	1205.7700	1204.7627	1204.6485	0.1142	0	K.DSTLIMQLLR.D Oxidation (M)

No match to: 1108.8700, 1124.6200, 1157.7000, 1197.8400, 1279.7400, 1304.6500, 1360.7800, 1548.9000, 1586.8500, 1598.9100, 1794.9200, 2100.8700



AC P61981; O70457; P35214; Q6FH52; Q9UDP2; Q9UN99;
DT 07-JUN-2004, integrated into UniProtKB/Swiss-Prot.
DT 23-JAN-2007, sequence version 2.
DT 27-JUL-2011, entry version 89.
DE RecName: Full=14-3-3 protein gamma;
DE AltName: Full=Protein kinase C inhibitor protein 1;
DE Short=KCIP-1;
DE Contains:
DE RecName: Full=14-3-3 protein gamma, N-terminally processed;
GN Name=YWHAG;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
OC Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE [MRNA], PHOSPHORYLATION, AND INTERACTION WITH
RP RAF1.
RC TISSUE=Vascular smooth muscle;
RX MEDLINE=99360936; PubMed=10433554; DOI=10.1089/104454999315105;
RA Autieri M.V., Carbone C.J.;
RT "14-3-3gamma interacts with and is phosphorylated by multiple protein
RT kinase C isoforms in PDGF-stimulated human vascular smooth muscle
RT cells.";
RL DNA Cell Biol. 18:555-564(1999).
RN [2]
RP NUCLEOTIDE SEQUENCE [MRNA], AND TISSUE SPECIFICITY.
RC TISSUE=Fetal brain;
RX MEDLINE=99417686; PubMed=10486217; DOI=10.1006/geno.1999.5887;
RA Horie M., Suzuki M., Takahashi E., Tanigami A.;
RT "Cloning, expression, and chromosomal mapping of the human 14-3-3gamma
RT gene (YWHAG) to 7q11.23.";
RL Genomics 60:241-243(1999).
RN [3]
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].
RA Ebert L., Schick M., Neubert P., Schatten R., Henze S., Korn B.;
RT "Cloning of human full open reading frames in Gateway(TM) system entry
RT vector (pDONR201).";
RL Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
RN [4]
RP NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RX MEDLINE=22737999; PubMed=12853948; DOI=10.1038/nature01782;