

Antigen KI-67 Recombinant Protein | MKI67 recombinant protein

Recombinant Human Antigen KI-67 (MKI67), partial

CATALOG # AAA114146	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
-------------------------------	---

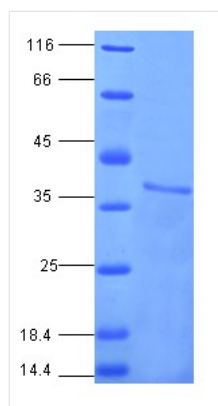
PRODUCT SYNONYMS

Antigen KI-67; Recombinant Human Antigen KI-67 (MKI67); partial; MKI67 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-158aa;Full Length
Sequence	MHQRKTAMFQ DPQERPRKLP QLCTELQTTI HDIILECVYC KQQLLRREVY DFAFRDLCIV YRDGNPYAVC DKCLKFYSKI SEYRHYCYSL YGTTLQYQYN KPLCDLLIRC INCQKPLCPE EKQRHLDKKQ RFHNIRGRWT GRCMSCCRSS RTRRETQL
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for MKI67 recombinant protein	Thought to be required for maintaining cell proliferation.
Product Categories/Family for MKI67 recombinant protein	Cell Cycle

References

The cell proliferation-associated antigen of antibody Ki-67 a very large, ubiquitous nuclear protein with numerous repeated elements, representing a new kind of cell cycle-maintaining proteins. Schlueter C., Duchrow M., Wohlenberg C., Becker M.H.G., Key G., Flad H.-D., Gerdes J.J. *Cell Biol.* 123:513-522(1993) The DNA sequence and comparative analysis of human chromosome 10. Deloukas P., Earthrowl M.E., Graffham D.V., Rubenfield M., French L., Steward C.A., Sims S.K., Jones M.C., Searle S., Scott C., Howe K., Hunt S.E., Andrews T.D., Gilbert J.G.R., Swarbreck D., Ashurst J.L., Taylor A., Battles J., Bird C.P., Ainscough R., Almeida J.P., Ashwell R.I.S., Ambrose K.D., Babbage A.K., Bagguley C.L., Bailey J., Banerjee R., Bates K., Beasley H., Bray-Allen S., Brown A.J., Brown J.Y., Burford D.C., Burrill W., Burton J., Cahill P., Camire D., Carter N.P., Chapman J.C., Clark S.Y., Clarke G., Clee C.M., Clegg S., Corby N., Coulson A., Dhami P., Dutta I., Dunn M., Faulkner L., Frankish A., Frankland J.A., Garner P., Garnett J., Gribble S., Griffiths C., Grocock R., Gustafson E., Hammond S., Harley J.L., Hart E., Heath P.D., Ho T.P., Hopkins B., Horne J., Howden P.J., Huckle E., Hynds C., Johnson C., Johnson D., Kana A., Kay M., Kimberley A.M., Kershaw J.K., Kokkinaki M., Laird G.K., Lawlor S., Lee H.M., Leongamornlert D.A., Laird G., Lloyd C., Lloyd D.M., Loveland J., Lovell J., McLaren S., McLay K.E., McMurray A., Mashreghi-Mohammadi M., Matthews L., Milne S., Nickerson T., Nguyen M., Overton-Larty E., Palmer S.A., Pearce A.V., Peck A.I., Pelan S., Phillimore B., Porter K., Rice C.M., Rogosin A., Ross M.T., Sarafidou T., Sehra H.K., Shownkeen R., Skuce C.D., Smith M., Standring L., Sycamore N., Tester J., Thorpe A., Torcasso W., Tracey A., Tromans A., Tsolas J., Wall M., Walsh J., Wang H., Weinstock K., West A.P., Willey D.L., Whitehead S.L., Wilming L., Wray P.W., Young L., Chen Y., Lovering R.C., Moschonas N.K., Siebert R., Fechtel K., Bentley D., Durbin R.M., Hubbard T., Doucette-Stamm L., Beck S., Smith D.R., Rogers J. *Nature* 429:375-381(2004) Sequence of the human Ki-67 protein gene 5' and promoter region. Gerdes J. The forkhead-associated domain of Ki-67 antigen interacts with the novel kinesin-like protein Hklp2. Sueishi M., Takagi M., Yoneda Y.J. *Biol. Chem.* 275:28888-28892(2000) A novel nucleolar protein, NIFK, interacts with the forkhead associated domain of Ki-67 antigen in mitosis. Takagi M., Sueishi M., Saiwaki T., Kametaka A., Yoneda Y.J. *Biol. Chem.* 276:25386-25391(2001) Global, in vivo, and site-specific phosphorylation dynamics in signaling networks. Olsen J.V., Blagoev B., Gnäd F., Macek B., Kumar C., Mortensen P., Mann M. *Cell* 127:635-648(2006) A probability-based approach for high-throughput protein phosphorylation analysis and site localization. Beausoleil S.A., Villen J., Gerber S.A., Rush J., Gygi S.P. *Nat. Biotechnol.* 24:1285-1292(2006) Improved titanium dioxide enrichment of phosphopeptides from HeLa cells and high confident phosphopeptide identification by cross-validation of MS/MS and MS/MS/MS spectra. Yu L.R., Zhu Z., Chan K.C., Issaq H.J., Dimitrov D.S., Veenstra T.D.J. *Proteome Res.* 6:4150-4162(2007) Combining protein-based IMAC, peptide-based IMAC, and MudPIT for efficient phosphoproteomic analysis. Cantin G.T., Yi W., Lu B., Park S.K., Xu T., Lee J.-D., Yates J.R. III. *J. Proteome Res.* 7:1346-1351(2008) Kinase-selective enrichment enables quantitative phosphoproteomics of the kinome across the cell cycle. Daub H., Olsen J.V., Bairlein M., Gnäd F., Oppermann F.S., Korner R., Greff Z., Keri G., Stemmann O., Mann M. *Mol. Cell* 31:438-448(2008) A quantitative atlas of mitotic phosphorylation. Dephoure N., Zhou C., Villen J., Beausoleil S.A., Bakalarski C.E., Elledge S.J., Gygi S.P. *Proc. Natl. Acad. Sci. U.S.A.* 105:10762-10767(2008) Lys-N and trypsin cover complementary parts of the phosphoproteome in a refined SCX-based approach. Gauci S., Helbig A.O., Slijper M., Krijgsvelde J., Heck A.J., Mohammed S. *Anal. Chem.* 81:4493-4501(2009) Identification and characterization of a novel nuclear protein complex involved in nuclear hormone receptor-mediated gene regulation. Garapaty S., Xu C.F., Trojer P., Mahajan M.A., Neubert T.A., Samuels H.H.J. *Biol. Chem.* 284:7542-7552(2009) Large-scale proteomics analysis of the human kinome. Oppermann F.S., Gnäd F., Olsen J.V., Hornberger R., Greff Z., Keri G., Mann M., Daub H. *Mol. Cell. Proteomics* 8:1751-1764(2009) Quantitative phosphoproteomic analysis of T cell receptor signaling reveals system-wide modulation of protein-protein interactions. Mayya V., Lundgren D.H., Hwang S.-I., Rezaul K., Wu L., Eng J.K., Rodionov V., Han D.K. *Sci. Signal.* 2:RA46-RA46(2009) Lysine acetylation targets protein complexes and co-regulates major cellular functions. Choudhary C., Kumar C., Gnäd F., Nielsen M.L., Rehman M., Walther T.C., Olsen J.V., Mann M. *Science* 325:834-840(2009) Quantitative phosphoproteomics reveals widespread full phosphorylation site occupancy during mitosis. Olsen J.V., Vermeulen M., Santamaria A., Kumar C., Miller M.L., Jensen L.J., Gnäd F., Cox J., Jensen T.S., Nigg E.A., Brunak S., Mann M. *Sci. Signal.* 3:RA3-RA3(2010) System-wide temporal characterization of the proteome and phosphoproteome of human embryonic stem cell differentiation. Rigbolt K.T., Prokhorova T.A., Akimov V., Henningsen J., Johansen P.T., Kratchmarova I., Kassem M., Mann M., Olsen J.V., Blagoev B. *Sci. Signal.* 4:RS3-RS3(2011) Microcephaly gene links trithorax and REST/NRSF to control neural stem cell proliferation and differentiation. Yang Y.J., Baltus A.E., Mathew R.S., Murphy E.A., Evrony G.D., Gonzalez D.M., Wang E.P., Marshall-Walker C.A., Barry B.J., Murn J., Tatarakis A., Mahajan M.A., Samuels H.H., Shi Y., Golden J.A., Mahajnah M., Shenhav R., Walsh C.A. *Cell* 151:1097-1112(2012) Systematic analysis of protein pools, isoforms, and modifications affecting turnover and subcellular localization. Ahmad Y., Boisvert F.M., Lundberg E., Uhlen M., Lamond A.I. *Mol. Cell. Proteomics* 11:M111.013680.01-M111.013680.15(2012) Structure of human Ki67 FHA domain and its binding to a phosphoprotein fragment from hNIFK reveal unique recognition sites and new views to the structural basis of FHA domain functions. Li H., Byeon I.-J., Ju Y., Tsai M.-D. *J. Mol. Biol.* 335:371-381(2004) Sequential phosphorylation and multisite interactions characterize specific target recognition by the FHA domain of Ki67. Byeon I.-J., Li H., Song H., Gronenborn A.M., Tsai M.-D. *Nat. Struct. Mol. Biol.* 12:987-993(2005)

NCBI AND UNIPROT INFORMATION

NCBI GI #	225543215
NCBI GeneID	4288
NCBI Accession #	NP_001139438.1
NCBI GenBank Nucleotide #	NM_001145966.1
UniProt Accession #	P46013; Q5VWH2
Molecular Weight	36.7 kDa
NCBI Official Full Name	antigen KI-67 isoform 2
NCBI Official Synonym Full Names	marker of proliferation Ki-67
NCBI Official Symbol	MKI67
NCBI Official Synonym Symbols	KIA; MIB-; MIB-1; PPP1R105
NCBI Protein Information	antigen KI-67
UniProt Protein Name	Antigen KI-67
UniProt Gene Name	MKI67
UniProt Entry Name	KI67_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/mki67-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/114146>