Chromobox protein homolog 7 Recombinant Protein | CBX7 recombinant protein

Recombinant Human Chromobox protein homolog 7

CATALOG #	HOST
AAA115805	**E Coli or Yeast or Baculovirus or Mammalian Cell**

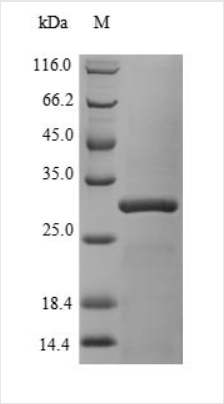
PRODUCT SYNONYMS

Chromobox protein homolog 7; Recombinant Human Chromobox protein homolog 7; CBX7 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	1-251aa; Full Length
Sequence	MELSAIGEQV FAVESIRKKR VRKGKVEYLV KWKGWPPKYS TWEPEEHILD PRLVMAYEEK EERDRASGYR KRGPKPKRLL LQRLYSMDLR SSHKAKGKEK LCFSLTCPLG SGSPEGVVKA GAPELVDKGP LVPTLPFPLR KPRKAHKYLR LSRKKFPPRG PNLESHSHRR ELFLQEPPAP DVLQAAGEWE PAAQPPEEEA DADLAEGPPP WTPALPSSEV TVTDITANSI TVTFREAQAA EGFFRDRSGK F
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 CBX7 recombinant protein	Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility. Promotes histone H3 trimethylation at 'Lys-9' (H3K9me3). Binds to trimethylated lysine residues in histones, and possibly also other proteins. Regulator of cellular lifespan by maintaining the repression of CDKN2A, but not by inducing telomerase activity.
Product Categories/Family for CBX7 recombinant protein	Transcription

References	The DNA sequence of human chromosome 22.Dunham I., Hunt A.R., Collins J.E., Bruskiewich R., Beare D.M., Clamp M., Smink L.J., Ainscough R., Almeida J.P., Babbage A.K., Bagguley C., Bailey J., Barlow K.F., Bates K.N., Beasley O.P., Bird C.P., Blakey S.E., Bridgeman A.M., Buck D., Burgess J., Burrill W.D., Burton J., Carder C., Carter N.P., Chen Y., Clark G., Clegg S.M., Cobley V.E., Cole C.G., Collier R.E., Connor R., Conroy D., Corby N.R., Coville G.J., Cox A.V., Davis J., Dawson E., Dhami P.D., Dockree C., Dodsworth S.J., Durbin R.M., Ellington A.G., Evans K.L., Fey J.M., Fleming K., French L., Garner A.A., Gilbert J.G.R., Goward M.E., Grafham D.V., Griffiths M.N.D., Hall C., Hall R.E., Hall-Tamlyn G., Heathcott R.W., Ho S., Holmes S., Hunt S.E., Jones M.C., Kershaw J., Kimberley A.M., King A., Laird G.K., Langford C.F., Leversha M.A., Lloyd C., Lloyd D.M., Martyn I.D., Mashreghi-Mohammadi M., Matthews L.H., Mccann O.T., Mcclay J., Mclaren S., McMurray A.A., Milne S.A., Mortimore B.J., Odell C.N., Pavitt R., Pearce A.V., Pearson D., Phillimore B.J.C.T., Phillips S.H., Plumb R.W., Ramsay H., Ramsey Y., Rogers L., Ross M.T., Scott C.E., Sehra H.K., Skuce C.D., Smalley S., Smith M.L., Soderlund C., Spragon L., Steward C.A., Sulston J.E., Swann R.M., Vaudin M., Wall M., Wallis J.M., Whiteley M.N., Willey D.L., Williams L., Williams S.A., Williamson H., Wilmer T.E., Wilming L., Wright C.L., Hubbard T., Bentley D.R., Beck S., Rogers J., Shimizu N., Minoshima S., Kawasaki K., Sasaki T., Asakawa S., Kudoh J., Shintani A., Shibuya K., Yoshizaki Y., Aoki N., Mitsuyama S., Roe B.A., Chen F., Chu L., Crabtree J., Deschamps S., Do A., Do T., Dorman A., Fang F., Fu Y., Hu P., Hua A., Kenton S., Lai H., Lao H.I., Lewis J., Lewis S., Lin S.-P., Loh P., Malaj E., Nguyen T., Pan H., Phan S., Qi S., Qian Y., Ray L., Ren Q., Shaull S., Sloan D., Song L., Wang Q., Wang Y., Wang Z., White J., Willingham D., Wu H., Yao Z., Zhan M., Zhang G., Chissoe S., Murray J., Miller N., Minx P., Fulton R., Johnson D., Bemis G., Bentley D., Bradshaw H., Bourne S., Cordes M., Du Z., Fulton L., Goela D., Graves T., Hawkins J., Hinds K., Kemp K., Latreille P., Layman D., Ozersky P., Rohlfing T., Scheet P., Walker C., Wamsley A., Wohldmann P., Pepin K., Nelson J., Korf I., Bedell J.A., Hillier L.W., Mardis E., Waterston R., Wilson R., Emanuel B.S., Shaikh T., Kurahashi H., Saitta S., Budarf M.L., McDermid H.E., Johnson A., Wong A.C.C., Morrow B.E., Edelmann L., Kim U.J., Shizuya H., Simon M.I., Dumanski J.P., Peyrard M., Kedra D., Seroussi E., Fransson I., Tapia I., Bruder C.E., O'Brien K.P., Wilkinson P., Bodenteich A., Hartman K., Hu X., Khan A.S., Lane L., Tilahun Y., Wright H.Nature 402:489-495(1999) Polycomb CBX7 has a unifying role in cellular lifespan.Gil J., Bernard D., Martinez D., Beach D.Nat. Cell Biol. 6:67-72(2004) Ring1B contains a ubiquitin-like docking module for interaction with Cbx proteins.Bezsonova I., Walker J.R., Bacik J.P., Duan S., Dhe-Paganon S., Arrowsmith C.H.Biochemistry 48:10542-10548(2009) Several distinct polycomb complexes regulate and co-localize on the INK4a tumor suppressor locus.Maertens G.N., El Messaoudi-Aubert S., Racek T., Stock J.K., Nicholls J., Rodriguez-Niedenfuhr M., Gil J., Peters G.PLoS ONE 4:E6380-E6380(2009) Polycomb CBX7 directly controls trimethylation of histone H3 at lysine 9 at the p16 locus.Li Q., Wang X., Lu Z., Zhang B., Guan Z., Liu Z., Zhong Q., Gu L., Zhou J., Zhu B., Ji J., Deng D.PLoS ONE 5:E13732-E13732(2010) Interaction proteomics analysis of polycomb proteins defines distinct PRC1 Complexes in mammalian cells.Vandamme J., Volkel P., Rosnoblet C., Le Faou P., Angrand P.O.Mol. Cell. Proteomics 0:0-0(2011) Solution NMR structure of the chromobox protein homolog 7.Structural genomics consortium (SGC) Submitted (MAR-2008) to the PDB data bankPolycomb group targeting through different binding partners of RING1B C-terminal domain.Wang R., Taylor A.B., Leal B.Z., Chadwell L.V., Ilangovan U., Robinson A.K., Schirf V., Hart P.J., Lafer E.M., Demeler B., Hinck A.P., McEwen D.G., Kim C.A.Structure 18:966-975(2010) Recognition and specificity determinants of the human cbx chromodomains.Kaustov L., Ouyang H., Amaya M., Lemak A., Nady N., Duan S., Wasney G.A., Li Z., Vedadi M., Schapira M., Min J., Arrowsmith C.H.J. Biol. Chem. 286:521-529(2011)

NCBI AND UNIPROT INFORMATION

NCBI GI #	28372505
NCBI GeneID	23492
NCBI Accession #	NP_783640.1
NCBI GenBank Nucleotide #	NM_175709.3
UniProt Accession #	O95931; Q86T17
Molecular Weight	30.3 kDa
NCBI Official Full Name	chromobox protein homolog 7
NCBI Official Synonym Full Names	chromobox 7
NCBI Official Symbol	CBX7
NCBI Protein Information	chromobox protein homolog 7
UniProt Protein Name	Chromobox protein homolog 7

UniProt Gene Name	**CBX7**
UniProt Entry Name	CBX7_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.

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Online datasheet: https://stage.aaabiotech.com/cbx7-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/115805