

MRCPPU REAGENTS and SERVICES

Standard Operating Procedure

Preparation of active MYCBP2 [4416 – 4678]

Enzyme description:- MYCBP2 [4416 - 4678]

Clone number:- DU 28681

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal GST

Purification method:- GSH Agarose

Calculated molecular mass:-

Monoisotopic 56, 460.65 daltons

Average Mass 56, 498.26 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.20

Purity:- >80 %

Activation protocol:- Constitutively active

Enzyme storage buffer:-

50 mM HEPES pH 7.5, 10% glycerol, 150mM NaCl, 0.5 mM TCEP

Storage temperature:- -70 °C

MRCPPU REAGENTS and SERVICES

Clone Data Sheet

MYCBP2 [4416 - 4678]

<u>Protein</u>	MYCBP2 [4416 - 4678]
<u>Clone number</u>	DU 28681
<u>Species</u>	Human
<u>Accession number</u>	O75592-1
<u>Tags</u>	N-terminal GST
<u>Bacterially expressed protein</u>	MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELG LEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGA VLDIRYGVSR IAYS KDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDH VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI PQIDKYLKSS KYIAWPLQGWQATFGGGDHPPKSDLEVLFGQPLGSS SATSLKQDADMCM ICFTEALSAAPAIQLDCSHIFHLQCCRRVLENRWLGPRITFGFISCPIC KNKINHIVLKDLLDPIKELYEDVRRKALMRLEYEGLHKSEAITTPGVRF YNDPAGYAMNRYAYYVCYKCRKAYFGGEARCD AEAGRGDDYDPRELICG ACSDVSRAQMCPKHGTD FLEYKCRYCCSVAVFFCFGTTHFCNACHDDFQ RMTSIPKEELPHCPAGPKGKQLEGTECPLHVVHPPTGEEFALGCGVCRN AHTF
<u>Native sequence</u>	Amino acids S4416 – F4678 (end residue) of human MYCBP2. Residue S232 of the fusion protein is equivalent to S4416 of the native enzyme. The GST tag is located at residues 1 – 220.
<u>Protease cleavage</u>	PreScission site (<u>LEVLFQGP</u>) residues 221 – 228

MRCPPU REAGENTS and SERVICES