

MRCPPU REAGENTS and SERVICES

Standard Operating Procedure

Preparation of MYCBP2 C4558A [4416 – 4678]

Enzyme description:- MYCBP2 C4558A [4416 - 4678]

Clone number:- DU 28828

Source:- Recombinant

Expression system:- *E.coli*

Tag:- N-terminal GST

Purification method:- GSH Agarose

Calculated molecular mass:-

Monoisotopic 56, 428.68 daltons

Average Mass 56, 466.20 daltons

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.20

Purity:- >80 %

Enzyme storage buffer:-

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

Storage temperature:- -70 °C

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Clone Data Sheet

MYCBP2 C4558A [4416 - 4678]

<u>Protein</u>	MYCBP2 C4558A [4416 - 4678]
<u>Clone number</u>	DU 28828
<u>Species</u>	Human
<u>Accession number</u>	O75592-1
<u>Tags</u>	N-terminal GST
<u>Bacterially expressed protein</u>	<p>MSPILGYWKIKGLVQPTRLLEYLEEKYEEHLYERDEGDKWRNKKFELG LEFPNLPHYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGA VLDIRYGVSR IAYS KDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDH VTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAI PQIDKYLKSS KYIAWPLQGWQATFGGGDHPPKSDLEVL FQGPLGS SATSLKQDADDMCM ICFTEALSAAPAIQLDCSHIFHLQCCRRVLENRWLGPRITFGFISCPIC KNKINHIVLKDLLDPIKELYEDVRRKALMRLEYEGLHKSEAITTPGVRF YNDPAGYAMNRYAYYVCYKCRKAYFGGEAR ADAEAGRGDDYDPRELICG ACSDVSRAQMCPKHGTD FLEYKCRYCCSVAVFFCFGTTHFCNACHDDFQ RMTSIPKEELPHCPAGPKGKQLEGTECPLHVVHPPTGEEFALGCGVCRN AHTF</p>
<u>Native sequence</u>	<p>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.</p> <p>The enzyme has an C4558A mutation. Residue C4558 is equivalent to A374 of the fusion protein.</p>
<u>Protease cleavage</u>	PreScission site (<u>LEVLFQGP</u>) residues 221 – 228

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