

Division of Signal Transduction Therapy

Assay:- Standard filter binding assay

Assay buffer:-

50 mM Tris-HCl pH 7.5, 0.1 % 2-mercaptoethanol, 0.1 mM EGTA,
0.1 mM sodium vanadate, 10 mM magnesium acetate

Substrate:-

LRRLSLGLRRLSLGLRRLSLGLRRLSLG Final concentration: 300 μ M

Specific activity range:- To be determined

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Clone Data Sheet

Aurora B [1 - 344]

<u>Protein</u>	Aurora B [1 – 344]
<u>Clone number</u>	DU 1773
<u>Species</u>	Human
<u>Accession number</u>	NM_004217
<u>Tags</u>	N-terminal His(6)
<u>Baculovirus expressed protein</u>	MHHHHHMAQKENSYPWPYGRQTAPSGLSTLPQRVLRKEPVTPSAL VLMSRSNVQPTAAPGQKVMENSSGTPDILTRHFTIDDFEIGRPLGK GKFGNVYLAREKKS HFIVALKVLFKSQIEKEGVEHQLRREIEIQAH LHHPNILLRLNYFYDRRRIYLLILEYAPRGELYKELQKSCTFDEQRT ATIMEELADALMYCHGKKVIHRDIKPENLLLGLKGELKIADFGWSV HAPSLRRKTMCGTLDYLPPEMIEGRMHNEKVDLWCIGVLCYELLVG NPPFESASHNETYRRIVKVDLKFASVPTGAQDLISKLLRHNP SER LPLAQVSAHPWVRANSRRVLPPSALQSV A
<u>Native sequence</u>	Amino acids M1 – A344 (end) of human Aurora B. Residue M8 of the fusion protein is equivalent to M1 of the native enzyme. The His(6) tag is located at residues 2 – 7.
<u>Protease cleavage</u>	None
<u>Cloning sites</u>	<i>Nde</i> 1 and <i>Xho</i> 1 sites of modified pFastBAC 1

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Complete nucleotide Sequence

ATGCACCATCACCATCACCATATGGCCCAGAAGGAGAACTCCTA
CCCCTGGCCCTACGGCCGACAGACGGCTCCATCTGGCCTGAGCA
CCCTGCCCCAGCGAGTCTCCGGAAAGAGCCTGTCACCCCATCT
GCACTTGTCTCATGAGCCGCTCCAATGTCCAGCCCACAGCTGC
CCCTGGCCAGAAGGTGATGGAGAATAGCAGTGGGACACCCGACA
TCTTAACGCGGCAC'TTCACAATTGATGACTTTGAGATTGGGCGT
CCTCTGGGCAAAGGCAAGTTTGGAAACGTGTACTTTGGCTCGGGA
GAAGAAAAGCCATTTTCATCGTGGCGCTCAAGGTCCTCTTCAAGT
CCCAGATAGAGAAGGAGGGCGTGGAGCATCAGCTGCGCAGAGAG
ATCGAAATCCAGGCCACCTGCACCATCCCAACATCCTGCGTCT
CTACAACCTATTTTTATGACCGGAGGAGGATCTACTTGATTCTAG
AGTATGCCCCCGCGGGGAGCTCTACAAGGAGCTGCAGAAGAGC
TGCACATTTGACGAGCAGCGAACAGCCACGATCATGGAGGAGTT
GGCAGATGCTCTAATGTACTGCCATGGGAAGAAGGTGATTCA
GAGACATAAAGCCAGAAAATCTGCTCTTAGGGCTCAAGGGAGAG
CTGAAGATTGCTGACTTCGGCTGGTCTGTGCATGCGCCCTCCCT
GAGGAGGAAGACAATGTGTGGCACCCCTGGACTACCTGCCCCCAG
AGATGATTGAGGGGCGCATGCACAATGAGAAGGTGGATCTGTGG
TGCATTGGAGTGCTTTGCTATGAGCTGCTGGTGGGGAACCCACC
CTTTGAGAGTGATCACACAACGAGACCTATCGCCGCATCGTCA
AGGTGGACCTAAAGTTCCCCGCTTCTGTGCCACGGGAGCCCAG
GACCTCATCTCCAAACTGCTCAGGCATAACCCCTCGGAACGGCT
GCCCCTGGCCCAGGTCTCAGCCCACCCTTGGGTCCGGGCCAACT
CTCGGAGGGTGCTGCCTCCCTCTGCCCTTCAATCTGTGCGCtga