Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of GST-GABARAP

Enzyme description:- GABARAP

Clone number:- DU40011

Source:- BL21 recombinant

Tag:- N-terminal GST

Purification method:- GSH-Sepharose

Expression level:- 6mg/L

Calculated molecular mass:-

Monoisotopic	41232 Da
Average Mass	41257 Da

[cysteines reduced, methionines have not been oxidised]

Theoretical pI:- 6.82

Purity:- 90%

Enzyme storage buffer:-

50 mM HEPES pH 7.5, 10% glycerol, 150mM NaCl, 1mM DTT

Storage temperature:- -80ºC

Assay:-

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Clone Data Sheet

GST-GABARAP

Protein	GST-GABARAP
Synonyms	Gamma-aminobutyric acid receptor associated protein; ATG8A; FLJ25768; MGC120154; MGC120155; MM46
Clone Number	DU40011
Species	Human
Accession Number	Protein: NP_009209; DNA: NM_007278.1
Tags	GST-
Aminoacid sequence of the expressed protein	MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFE LGLEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISM LEGAVLDIRYGVSRIAYSKDFETLKVDFLSKLPEMLKMFEDRLCHKT YLNGDHVTHPDFMLYDALDVVLYMDPMCLDAFPKLVCFKKRIEAIPQ IDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDHPPKSDENLYFQGGS **MKFVYKEEHPFEKRRSEGEKIRKKYPDRVPVIVEKAPKARIGDLDKK KYLVPSDLTVGQFYFLIRKRIHLRAEDALFFFVNNVIPPTSATMGQL YQEHHEEDFFLYIAYSDESVYGL**
Native sequence	
Protease cleavage	TEV
Cloning sites	BamH1 / Not1

DNA sequence of insert

GGATCCATGAAGTTCGTGTACAAAGAAGAGCATCCGTTCGAGAAGCG
CCGCTCTGAGGGCGAGAAGATCCGAAAGAAATACCCGGACCGGGTGC
CGGTGATAGTAGAAAAGGCTCCCAAAGCTCGGATAGGAGACCTGGAC
AAAAAGAAATACCTGGTGCCTTCTGATCTCACAGTTGGTCAGTTCTA
CTTCTTGATCCGGAAGCGAATTCATCTCCGAGCTGAGGATGCCTTGT
TTTTCTTTGTCAACAATGTCATTCCACCCACCAGTGCCACAATGGGT
CAGCTGTACCAGGAACACCATGAAGAAGACTTCTTTCTCTACATTGC
CTACAGTGACGAAAGTGTCTACGGTCTGTGAGCGGCCGC