

Division of Signal Transduction Therapy

Standard Operation Procedure

Preparation of KEAP1 [C151S] (1-625 = full length)

<u>Enzyme description:-</u>	KEAP1 [C151S]
<u>Clone number:-</u>	DU23452
<u>Source:-</u>	Recombinant
<u>Tag:-</u>	cleaved from N-terminal Dac
<u>Purification method:-</u>	ampicillin- Sepharose, SEC
<u>Expression level:-</u>	4 mg/L
<u>Calculated molecular mass:-</u>	
Monoisotopic	69604 Da
Average Mass	69647 Da
[cysteines reduced, methionines have not been oxidised]	
<u>Theoretical pI:-</u>	6.31
<u>Purity:-</u>	90 %
<u>Enzyme storage buffer:-</u>	
50 mM HEPES pH 7.5, 10% glycerol, 150mM NaCl, 1mM DTT	
<u>Storage temperature:-</u>	-80°C
<u>Assay:-</u>	

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Clone Data Sheet

Protein name KEAP1 [C151S] 1- 625 (full length)

<u>Protein</u>	KEAP1 [C151S] (full length)
<u>Synonyms</u>	iNrf2, KLHL19
<u>Clone Number</u>	DU23452
<u>Species</u>	Human
<u>Accession Number</u>	Protein: Q14145 Gene: NM_203500.1; NM_012289.3
<u>Tags</u>	cleaved from N-terminal Dac-TEV-TEV-
Aminoacid sequence of the expressed protein	MSAIPGVPQIDAESYILIDYNSGKVLAEQNADVRRDPASLTKMMTSYVIG QAMKAGKFKETDLVTIGNDAWATGNPVFKGSSLMFLKPGMQVPVSQILIRG INLQSGNDACVAMADFAAGSQDAFVGLMNSYVNALGLKNTHFQTVHGLDA DGQYSSARDMALIGQALIRDVPNEYSIYKEKEFTFNGIRQLNRNGLLWDN SLNVDGIKTGHTDKAGYNLVSATEGQMRLISAVMGGRTFKGREAESKKL LTWGFRFFETVNPENLYFOGGSENLYFQMOPDPRPSGAGACCRFLPLQSQ CPEGAGDAVMYASTECKAEVTPSQHGNRTFSYTLEDHTKQAFGIMNELRL SQQLCDVTLOVKYQDAPAAQFMAHKVVLASSSPVFKAMFTNGLREQGMEV VSIEGIHPKVMERLIEFAYTASISMGEKSVLHVMNGAVMYQIDSVVRACS DFLVQQLDPSNAIGIANFAEQIGCVELHQRAREYIYMHFGEVAKQEEFFN LSHCQLVTLISRDDLNVRCESVHFACINWVKYDCEQRRFYVQALLRAVR CHSLTPNFLQMQLQKCEILOSDSRCKDYLVKIFEELTLHKPTQVMPCRAP KVGRLIYTAGGYFRQSLSYLEAYNPSDGTWLRRLADLQVPRSGLAGCVVGG LLYAVGGRNNSPDGNTDSSALDCYNPMTNQWSPCAPMSVPRNRIGVGVID GHIYAVGGSHGCIHHNSVERYEPERDEWHLVAPMLTRRIGVGVAVLNRL YAVGGFDGTNRLNSAECYYPERNRMITAMNTIRSGAGVCVLHNCIYAA GGYDGDQDLNSVERYDVETETWTFVAPMKHRRSALGITVHQGRIYVLGGY DGHTFLDSVECYDPD TD TWSEVTRMTSGRSGVGVAVTMEPCRKQIDQQNC TC
Native sequence	in bold
Protease cleavage	two TEV proteases site underlined
Cloning sites	BamH1 / Not1

**DNA sequence of
the expression
cassette**

ATGTCTGCAATCCCGGGTGTACCGCAGATCGATGCGGAGTCCTACATCCTGA
TTGACTATAACTCCGGCAAAGTGCTCGCCGAACAGAACGCAGATGTCCGCCG
CGATCCTGCCAGCCTGACCAAAATGATGACCAGTTACGTTATCGGCCAGGCA
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CATGGGCCACCGGTAAACCCGGTGTTTAAAGGTTCTTCGCTGATGTTCTCTCAA
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