

Recombinant Shigella flexneri serotype X E3 ubiquitin-protein ligase ipaH9.8

Catalog No: #AP73015

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Package Size: #AP73015-1 20ug #AP73015-2 100ug #AP73015-3 1mg

Description

Product Name	Recombinant Shigella flexneri serotype X E3 ubiquitin-protein ligase ipaH9.8
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-545aaSequence Info:Full Length
Other Names	Invasion plasmid antigen ipaH9.8
Accession No.	Q8VSC3
Uniprot	Q8VSC3
GeneID	1238048;13917118;
Calculated MW	64 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MLPINNNSFLPQNSFYNTISGTYADYFSAWDKWEKQALPGEERDEAVSRLKECLINNSDELRLDRLNLSLPLD NLPAQITLLNVSYNQLTNLPELPTLKKLYSASNKLSLPPALPAESLQVQHNELENLPAIPDSSLTMNISYNEI VSLPSLPQALKNLRATRNLTELPAFSEGNNPVVREYFFDRNQISHIPESILNLRNECSIHISDNPLSSHALPALQ RLTSSPDYHGPRIFYSMSDGGQNTLHRPLADAVTAWFPENKQSDVSIWHAFEHHEEHANTFSAFLDRLSDTV SARNTSGFREQVAAWLEKLSASAELRQQSFAVAADATESCEDRVALTWNLRKTLVHQASEGLFDNDTGAL LSLGREMFRLLEIDIARDKVRTLHFVDEIEVYLAFTMLAEKLQLSTAVKEMRFYGVSGVTANDLRTAEAMVR SRENEFTDWFSLWGPWHAFLKRTADRWAQAEQKYEMLENEYPQRVADRLKASGLSGDADAEREAGAQ VMRETEQQIYRQLTDEVLALRLPENGSQHLHHS
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Effector proteins function to alter host cell physiology and promote bacterial survival in host tissues. This protein is an E3 ubiquitin ligase that interferes with host's ubiquitination pathway and modulates the acute inflammatory responses, thus facilitating bacterial colonization within the host cell. Interacts with IKBKG (NO) and TNIP1 (ABIN-1), a ubiquitin-binding adapter protein, which results in TNIP1-dependent 'Lys-27'-linked polyubiquitination of IKBKG. Consequently, polyubiquitinated IKBKG undergoes proteasome-dependent degradation, which perturbs NF-kappa-B activation during bacterial infection. Uses UBE2D2 (UBCH5B) as an E2 ubiquitin-conjugating enzyme. Mediates polyubiquitination of host U2AF1, leading to its proteasomal degradation.

References

Comparison of the virulence plasmid genomes of two strains of Shigella which lost the ability to bind Congo red. Xiong Z., Tang X., Yang F., Zhang X., Yang J., Chen L., Nie H., Yan Y., Jiang Y., Wang J., Xue Y., Xu X., Zhu Y., Dong J., An L., Wang X., Jin Q. *Sci. China, Ser. C, Life Sci.* 49:141-148(2006) Research Topic: Others

Note: This product is for in vitro research use only