

Recombinant Human fucosidase, alpha-L- 2, plasma, His-tagged

Cat. No. FUCA2-679H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FUCA2, 29-467aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	29-467 a.a.
Description	FUCA2 is a plasma alpha-L-fucosidase, which represents 10-20% of the total cellular fucosidase activity. This protein is a member of the glycosyl hydrolase 29 family, and catalyzes the hydrolysis of the alpha-1,6-linked fucose joined to the reducing-end N-acetylglucosamine of the carbohydrate moieties of glycoproteins. FUCA2 is essential for Helicobacter pylori adhesion to human gastric cancer cells. Recombinant human FUCA2 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid, In 20mM phosphate (pH8.0) containing 10% glycerol
Molecular Mass	53.3 kDa (462aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHSATRFD PTWESLDARQ LPAWFDQAKF GIFIHWGVFS VPSFGSEFWF WYWQKEKIPK YVEFMKDNYP PSFKYEDFGP LFTAKFFNAN QWADIFQASG AKYIVLTSKH HEGFTLWGSE YSWNWNNAIDE GPKRDIVKEL EVAIRNRTDL RFGLYYSLFE WFHPLFLEDE SSSFHKRQFP VSKTLPELYE LVNNYQPEVL WSDGDGGAPD QYWNSTGFLA WLYNESPVRG

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

TVVTNDRWGA GSICKHGGFY TCSDRYNPGH LLPHKWENCM TIDKLSWGYR
 REAGISDYLT IEELVKQLVE TVSCGGNLLM NIGPTLDGTI SVVFEERLRQ
 MGSWLKVNGE AIYETHTWRS QNDTVTPDVW YTSKPKEKLV YAIFLKWPTS
 GQLFLGHPKA ILGATEVKLL GHGQPLNWIS LEQNGIMVEL PQLTIHQMPQ
 KWGWALALTN VI

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [FUCA2 fucosidase, alpha-L- 2, plasma \[Homo sapiens \]](#)

Official Symbol FUCA2

Synonyms FUCA2; fucosidase, alpha-L- 2, plasma; plasma alpha-L-fucosidase; dJ20N2.5; MGC1314; alpha-L-fucosidase 2; alpha-L-fucoside fucohydrolase 2; RP1-20N2.5;

Gene ID [2519](#)

mRNA Refseq [NM_032020](#)

Protein Refseq [NP_114409](#)

MIM [136820](#)

UniProt ID [Q9BTY2](#)

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Chromosome Location	6q24
Pathway	Other glycan degradation, organism-specific biosystem; Other glycan degradation, conserved biosystem;
Function	alpha-L-fucosidase activity; catalytic activity; cation binding; hydrolase activity, acting on glycosyl bonds;

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