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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

KDEL2 (Human) Recombinant Protein (P01)

Catalog Number: H00011014-P01

Regulation Status: For research use only (RUO)

Product Description: Human KDEL2 full-length ORF (NP_006845.1, 1 a.a. - 212 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MNIFRLTGDLSHLAAIVILLKWKTRSCAGISGKSQLLF
ALVFTTRYLDLFTSFISLYNTSMKVIYLACSYATVYLIYL
KFKATYDGNHDTFRVEFLVVPVGGLSFLVNHDFSPLEI
LWTFSIYLESVAILPQLFMISKTGAEITTHYLFFLGLY
RALYLVNWIWRFYFEGFFDLIAVVAGVVQTILYCDFFYL
YITKVLKGGKLSLPA

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 50.8

Interspecies Antigen Sequence: Mouse (98); Rat (98)

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 11014

Gene Symbol: KDEL2

Gene Alias: ELP-1, ERD2.2, FLJ45532

Gene Summary: Retention of resident soluble proteins in the lumen of the endoplasmic reticulum (ER) is achieved in both yeast and animal cells by their continual retrieval from the cis-Golgi, or a pre-Golgi compartment. Sorting of these proteins is dependent on a C-terminal tetrapeptide signal, usually lys-asp-glu-leu (KDEL) in animal cells, and his-asp-glu-leu (HDEL) in *S. cerevisiae*. This process is mediated by a receptor that recognizes, and binds the tetrapeptide-containing protein, and returns it to the ER. In yeast, the sorting receptor encoded by a single gene, ERD2, is a seven-transmembrane protein. Unlike yeast, several human homologs of the ERD2 gene, constituting the KDEL receptor gene family, have been described. KDEL2 was the second member of the family to be identified, and it encodes a protein which is 83% identical to the KDEL1 gene product. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq]