



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Datasheet

### KDEL1 (Human) Recombinant Protein (P01)

**Catalog Number:** H00010945-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human KDEL1 full-length ORF (NP\_006792.1, 1 a.a. - 212 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

MNLFRLFGLDLSHLLAIILLLLKIWKSRSCAGISGKSQVLF  
AVVFTARYLDLFTNYISLYNTCMKVVIACSFVVWLIY  
SKFKATYDGNHDTFRVEFLVVPTAILAFLVNHDFPLEI  
LWTFSIYLESVAILPQLFMVSKTGEAETITSHYLFALGV  
YRTLYLFNWWRVYHFEGFFDLIAIVAGLVQTVLYCDDFFY  
LYITKVLKGGKLSLPA

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 50.9

**Interspecies Antigen Sequence:** Mouse (99); Rat (99)

**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:** 10945

**Gene Symbol:** KDEL1

**Gene Alias:** ERD2, ERD2.1, HDEL, PM23

**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, which is a seven-transmembrane protein. Unlike yeast, several human homologs of the ERD2 gene, constituting the KDEL receptor gene family, have been described. The protein encoded by this gene was the first member of the family to be identified, and it encodes a protein structurally and functionally similar to the yeast ERD2 gene product. [provided by RefSeq]