

#### **EDEM3 Antibody**

Rabbit Polyclonal Antibody Catalog # ABV10459

## **Specification**

### **EDEM3 Antibody - Product Information**

Application
Primary Accession

Reactivity Host Clonality

Calculated MW

Isotype

WB

<u>09BZQ6</u>

Human, Mouse, Rat

Rabbit Polyclonal Rabbit IgG 104664

## **EDEM3 Antibody - Additional Information**

**Gene ID 80267** 

Positive Control
Application & Usage
Other Names
Alpha-1, 2-mannosidase EDEM3

3T3 cell lysate Western blot: 1:200

Target/Specificity

EDEM3

**Antibody Form** 

Liquid

**Appearance** 

Colorless liquid

**Formulation** 

 $100 \mu g$  (0.5 mg/ml) of antibody in PBS, 0.01 % BSA, 0.01 % thimerosal, and 50 % glycerol, pH7.2

Handling

The antibody solution should be gently mixed before use.

**Reconstitution & Storage** 

-20 °C

**Background Descriptions** 

**Precautions** 

EDEM3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## **EDEM3 Antibody - Protein Information**



#### Name EDEM3

### Synonyms Clorf22

#### **Function**

Involved in endoplasmic reticulum-associated degradation (ERAD). Accelerates the glycoprotein ERAD by proteasomes, by catalyzing mannose trimming from Man8GlcNAc2 to Man7GlcNAc2 in the N-glycans (PubMed:<a href="http://www.uniprot.org/citations/25092655" target="\_blank">25092655</a>). May also participate in mannose trimming from all glycoproteins and not just misfolded ones targeted to ERAD (PubMed:<a href="http://www.uniprot.org/citations/34143952" target="\_blank">34143952</a>). May have alpha 1,2-mannosidase activity (By similarity).

#### **Cellular Location**

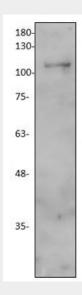
Endoplasmic reticulum lumen {ECO:0000255|PROSITE- ProRule:PRU10138}

#### **EDEM3 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

#### **EDEM3 Antibody - Images**



Western blot of 3T3 cell lysate with EDEM3 antibody.

# **EDEM3 Antibody - Background**

EDEM3 belongs to the glycosyl hydrolase 47 family. It is involved in endoplasmic reticulum-associated degradation (ERAD). Quality control in the endoplasmic reticulum (ER) ensures





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that only properly folded proteins are retained in the cell through recognition and degradation of misfolded or unassembled proteins. EDEM3 accelerates the degradation of misfolded glycoproteins in the ER. It also accelerates the glycoprotein ERAD by proteasomes and this process depends on mannose-trimming from the N-glycans. It is most likely to have some alpha 1, 2-mannosidase activity.