

ORP150/GRP170/HSP12A Rabbit pAb

Catalog No.: A12313

Basic Information

Observed MW**Calculated MW**

111kDa

Category

Primary antibody

Applications

ELISA

Cross-Reactivity

Human

Background

The protein encoded by this gene belongs to the heat shock protein 70 family. This gene uses alternative transcription start sites. A cis-acting segment found in the 5' UTR is involved in stress-dependent induction, resulting in the accumulation of this protein in the endoplasmic reticulum (ER) under hypoxic conditions. The protein encoded by this gene is thought to play an important role in protein folding and secretion in the ER. Since suppression of the protein is associated with accelerated apoptosis, it is also suggested to have an important cytoprotective role in hypoxia-induced cellular perturbation. This protein has been shown to be up-regulated in tumors, especially in breast tumors, and thus it is associated with tumor invasiveness. This gene also has an alternative translation initiation site, resulting in a protein that lacks the N-terminal signal peptide. This signal peptide-lacking protein, which is only 3 amino acids shorter than the mature protein in the ER, is thought to have a housekeeping function in the cytosol. In rat, this protein localizes to both the ER by a carboxy-terminal peptide sequence and to mitochondria by an amino-terminal targeting signal. Alternative splicing results in multiple transcript variants.

Recommended Dilutions

Immunogen Information

Gene ID

10525

Swiss Prot

Q9Y4L1

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-140 of human ORP150/GRP170/HSP12A (NP_001124463.1).

Synonyms

IMD59; Grp170; HSP12A; ORP150; GRP-170; ORP-150; ORP150/GRP170/HSP12A

Contact

 | www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.