

RNF145 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP18281b**Specification**

RNF145 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q96MT1](#)**RNF145 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 153830**Other Names**

RING finger protein 145, RNF145

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RNF145 Antibody (C-term) Blocking Peptide - Protein Information**Name** RNF145 {ECO:0000312|PROSITE:PS50089}**Function**

E3 ubiquitin ligase that catalyzes the direct transfer of ubiquitin from E2 ubiquitin-conjugating enzyme to a specific substrate. In response to bacterial infection, negatively regulates the phagocyte oxidative burst by controlling the turnover of the NADPH oxidase complex subunits. Promotes monoubiquitination of CYBA and 'Lys-48'-linked polyubiquitination and degradation of CYBB NADPH oxidase catalytic subunits, both essential for the generation of antimicrobial reactive oxygen species. Involved in the maintenance of cholesterol homeostasis. In response to high sterol concentrations ubiquitinates HMGCR, a rate-limiting enzyme in cholesterol biosynthesis, and targets it for degradation. The interaction with INSIG1 is required for this function. In addition, triggers ubiquitination of SCAP, likely inhibiting its transport to the Golgi apparatus and the subsequent processing/maturation of SREBPF2, ultimately down-regulating cholesterol biosynthesis.

Cellular Location

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q5SWK7}; Multi-pass membrane protein

RNF145 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

RNF145 Antibody (C-term) Blocking Peptide - Images**RNF145 Antibody (C-term) Blocking Peptide - Background**

The function of this protein remains unknown.

RNF145 Antibody (C-term) Blocking Peptide - References

Soranzo, N., et al. Nat. Genet. 41(11):1182-1190(2009)