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Product Information

RNF11
human, recombinant
histidine-tagged, expressed in *Escherichia coli*

Catalog Number **R0281**
Storage Temperature –20 °C

Synonyms: RING Finger Protein 11; CGI-123; MGC51169; SID1669

Product Description

RING finger proteins play important roles within the cell, primarily by mediating the transfer of ubiquitin (Ub) both to heterologous substrates as well as to the RING finger proteins themselves.

RNF11 (RING Finger Protein 11) is a 154 amino acid protein that contains a RING-H2 finger. Within the RING finger domain, RNF11 contains an Akt phosphorylation site (Thr^{135}) that is situated within a binding domain.[1] RNF11 is a RING E3 ubiquitin ligase with potential to mediate ubiquitination and subsequent proteolysis of many cellular proteins.[2,3] It is capable of binding numerous proteins, which take part in a wide variety of cellular pathways, including involvement in TGF-β and epidermal growth factor receptor (EGFR) signaling.[1-3] Its expression is elevated in breast and prostate cancer. RNF11 may represent an important target for novel cancer therapies.

The product is supplied in a solution of 50 mM Tris, pH 7.5, with 150 mM NaCl, 1 mM DTT, and 30% (w/v) glycerol.

Purity: ≥90% (SDS-PAGE)

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at –20 °C is recommended. Upon first use, it is recommended to divide the enzyme into aliquots and store at –20 °C. The product is stable at –20 °C for at least 2 years.

References

1. Connor, M.K., et al., Molecular characterization of ring finger protein 11. *Mol. Cancer Res*., **3**, 453-461 (2005).
2. Connor, M.K., and Seth, A., A central role for the ring finger protein RNF11 in ubiquitin-mediated proteolysis via interactions with E2s and E3s. *Oncogene*, 23, 2089-2095 (2004).
3. Burger, A., et al., Novel RING E3 ubiquitin ligases in breast cancer. *Neoplasia*, **8**, 689-695 (2006).

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