

**IMP4 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9358b****Specification**

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**IMP4 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q96G21](#)**IMP4 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 92856**Other Names**

U3 small nucleolar ribonucleoprotein protein IMP4, U3 snoRNP protein IMP4, Brix domain-containing protein 4, IMP4, BXDC4

**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.

**IMP4 Antibody (C-term) Blocking Peptide - Protein Information****Name** IMP4 ([HGNC:30856](#))**Synonyms** BXDC4**Function**

Component of the 60-80S U3 small nucleolar ribonucleoprotein (U3 snoRNP). Required for the early cleavages during pre-18S ribosomal RNA processing (PubMed:<a href="http://www.uniprot.org/citations/12655004" target="\_blank">12655004</a>). Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the RNA exosome (PubMed:<a href="http://www.uniprot.org/citations/34516797" target="\_blank">34516797</a>).

**Cellular Location**

Nucleus, nucleolus

## **IMP4 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **IMP4 Antibody (C-term) Blocking Peptide - Images**

## **IMP4 Antibody (C-term) Blocking Peptide - Background**

IMP4 forms a ternary complex with IMP3 (MIM 612980) and MPP10 (MPHOSPHO10; MIM 605503) that interacts with U3 small nucleolar RNA (snoRNA), which is required for the early cleavage steps in pre-rRNA processing.

## **IMP4 Antibody (C-term) Blocking Peptide - References**

Hillier, L.W. Nature 434 (7034), 724-731 (2005) Andersen, J.S. Nature 433 (7021), 77-83 (2005) Granneman, S. Nucleic Acids Res. 31 (7), 1877-1887 (2003)