

**TMEM53 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP13117a****Specification**

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**TMEM53 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q6P2H8](#)**TMEM53 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 79639**Other Names**

Transmembrane protein 53, TMEM53

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody AP13117a was selected from the N-term region of TMEM53. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**TMEM53 Antibody (N-term) Blocking Peptide - Protein Information****Name** TMEM53**Synonyms** NET4**Function**

Ensures normal bone formation, through the negative regulation of bone morphogenetic protein (BMP) signaling in osteoblast lineage cells by blocking cytoplasm-nucleus translocation of phosphorylated SMAD1/5/9 proteins.

**Cellular Location**

Nucleus outer membrane; Single-pass membrane protein

**Tissue Location**

[Isoform 1]: Widely expressed.

**TMEM53 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**TMEM53 Antibody (N-term) Blocking Peptide - Images****TMEM53 Antibody (N-term) Blocking Peptide - Background**

The specific function of this protein remains unknown.

**TMEM53 Antibody (N-term) Blocking Peptide - References**

Lamesch, P., et al. Genomics 89(3):307-315(2007) Schirmer, E.C., et al. Science 301(5638):1380-1382(2003)