

GCFC Blocking Peptide (Center)
Synthetic peptide
Catalog # BP1954c

Specification

GCFC Blocking Peptide (Center) - Product Information

Primary Accession [O9Y5B6](#)
Other Accession [P58501](#)

GCFC Blocking Peptide (Center) - Additional Information

Gene ID 94104

Other Names

PAX3- and PAX7-binding protein 1, GC-rich sequence DNA-binding factor 1, PAXBP1, C21orf66, GCFC, GCFC1

Target/Specificity

The synthetic peptide sequence is selected from aa 484~498 of HUMAN PAXBP1

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.

GCFC Blocking Peptide (Center) - Protein Information

Name PAXBP1

Synonyms C21orf66, GCFC, GCFC1

Function

Adapter protein linking the transcription factors PAX3 and PAX7 to the histone methylation machinery and involved in myogenesis. Associates with a histone methyltransferase complex that specifically mediates dimethylation and trimethylation of 'Lys-4' of histone H3. Mediates the recruitment of that complex to the transcription factors PAX3 and PAX7 on chromatin to regulate the expression of genes involved in muscle progenitor cells proliferation including ID3 and CDC20.

Cellular Location

Nucleus {ECO:0000250|UniProtKB:P58501}.

Tissue Location

Ubiquitous..

GCFC Blocking Peptide (Center) - Protocols

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

- [Blocking Peptides](#)

GCFC Blocking Peptide (Center) - Images

GCFC Blocking Peptide (Center) - Background

Partial homology to a transcriptional repressor and histone-interacting protein suggests that GCFC is involved in the regulation of transcription. It GCFC binds to the GC-rich sequences (5'-gcggggc-3') present in the epidermal growth factor receptor, beta-actin, and calcium-dependent protease promoters.

GCFC Blocking Peptide (Center) - References

Reymond, A., et al., Genomics 78 (1-2), 46-54 (2001).
Slavov, D., et al., Gene 247 (1-2), 215-232 (2000).