

**BHLHB5 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP4777c****Specification**

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**BHLHB5 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q8NFJ8](#)**BHLHB5 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 27319**Other Names**

Class E basic helix-loop-helix protein 22, bHLHe22, Class B basic helix-loop-helix protein 5, bHLHb5, Trinucleotide repeat-containing gene 20 protein, BHLHE22, BHLHB5, TNRC20

**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.

**BHLHB5 Antibody (Center) Blocking Peptide - Protein Information****Name** BHLHE22**Synonyms** BHLHB5, TNRC20**Function**

Inhibits DNA binding of TCF3/E47 homodimers and TCF3 (E47)/NEUROD1 heterodimers and acts as a strong repressor of Neurod1 and Myod-responsive genes, probably by heterodimerization with class a basic helix-loop-helix factors. Despite the presence of an intact basic domain, does not bind to DNA (By similarity). In the brain, may function as an area-specific transcription factor that regulates the postmitotic acquisition of area identities and elucidate the genetic hierarchy between progenitors and postmitotic neurons driving neocortical arealization. May be required for the survival of a specific population of inhibitory neurons in the superficial laminae of the spinal cord dorsal horn that may regulate pruritis. Seems to play a crucial role in the retinogenesis, in the specification of amacrine and bipolar subtypes. Forms with PRDM8 a transcriptional repressor complex controlling genes involved in neural development and neuronal differentiation.

**Cellular Location**

Nucleus.

**Tissue Location**

Brain-specific, with the highest expression in the cerebellum.

#### **BHLHB5 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **BHLHB5 Antibody (Center) Blocking Peptide - Images**

#### **BHLHB5 Antibody (Center) Blocking Peptide - Background**

BHLHB5 inhibits DNA binding of TCF3/E47 homodimers and TCF3 (E47)/NEUROD1 heterodimers and acts as a strong repressor of Neurod1 and Myod-responsive genes, probably by heterodimerization with class a basic helix-loop-helix factors. BHLHB5 despite the presence of an intact basic domain, does not bind to DNA.

#### **BHLHB5 Antibody (Center) Blocking Peptide - References**

Stevens, J.D., et al. Differentiation 76(9):1006-1022(2008)McLellan, A.S., et al. Mech. Dev. 119 SUPPL 1, S285-S291 (2002)