

ARNT2 Antibody (Center) Blocking Peptide

Synthetic peptide Catalog # BP16544c

Specification

ARNT2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession

Q9HBZ2

ARNT2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 9915

Other Names

Aryl hydrocarbon receptor nuclear translocator 2, ARNT protein 2, Class E basic helix-loop-helix protein 1, bHLHe1, ARNT2, BHLHE1, KIAA0307

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.

ARNT2 Antibody (Center) Blocking Peptide - Protein Information

Name ARNT2

Synonyms BHLHE1, KIAA0307

Function

Transcription factor that plays a role in the development of the hypothalamo-pituitary axis, postnatal brain growth, and visual and renal function (PubMed:24022475). Specifically recognizes the xenobiotic response element (XRE).

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00981, ECO:0000269|PubMed:24465693}

ARNT2 Antibody (Center) Blocking Peptide - Protocols

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

• Blocking Peptides



ARNT2 Antibody (Center) Blocking Peptide - Images ARNT2 Antibody (Center) Blocking Peptide - Background

This gene encodes a member of thebasic-helix-loop-helix-Per-Arnt-Sim (bHLH-PAS) superfamily oftranscription factors. The encoded protein acts as a partner forseveral sensor proteins of the bHLH-PAS family, formingheterodimers with the sensor proteins that bind regulatory DNAsequences in genes responsive to developmental and environmental stimuli. Under hypoxic conditions, the encoded protein complexes with hypoxia-inducible factor 1alpha in the nucleus and this complex binds to hypoxia-responsive elements in enhancers and promoters of oxygen-responsive genes. A highly similar protein inmouse forms functional complexes with both aryl hydrocarbonreceptors and Single-minded proteins, suggesting addition roles for the encoded protein in the metabolism of xenobiotic compounds and the regulation of neurogenesis, respectively.

ARNT2 Antibody (Center) Blocking Peptide - References

Ramirez, J.M., et al. Eur. J. Immunol. 40(9):2450-2459(2010)Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010):Chakrabarti, B., et al. Autism Res 2(3):157-177(2009)Ferreira, M.A., et al. Nat. Genet. 40(9):1056-1058(2008)Martinez, V., et al. Breast Cancer Res. Treat. 110(3):521-530(2008)