

DR1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP17826c**Specification**

DR1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession [Q01658](#)

DR1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 1810

Other Names

Protein Dr1, Down-regulator of transcription 1, Negative cofactor 2-beta, NC2-beta, TATA-binding protein-associated phosphoprotein, DR1

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.

DR1 Antibody (Center) Blocking Peptide - Protein Information

Name DR1

Function

The association of the DR1/DRAP1 heterodimer with TBP results in a functional repression of both activated and basal transcription of class II genes. This interaction precludes the formation of a transcription-competent complex by inhibiting the association of TFIIA and/or TFIIB with TBP. Can bind to DNA on its own. Component of the ATAC complex, a complex with histone acetyltransferase activity on histones H3 and H4.

Cellular Location

Nucleus.

DR1 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

DR1 Antibody (Center) Blocking Peptide - Images

DR1 Antibody (Center) Blocking Peptide - Background

This gene encodes a TBP- (TATA box-binding protein)associated phosphoprotein that represses both basal and activatedlevels of transcription. The encoded protein is phosphorylated invivo and this phosphorylation affects its interaction with TBP.This protein contains a histone fold motif at the amino terminus, aTBP-binding domain, and a glutamine- and alanine-rich region. Thebinding of DR1 repressor complexes to TBP-promoter complexes mayestablish a mechanism in which an altered DNA conformation,together with the formation of higher order complexes, inhibits theassembly of the preinitiation complex and controls the rate of RNApolymerase II transcription.

DR1 Antibody (Center) Blocking Peptide - References

Corneveaux, J.J., et al. Hum. Mol. Genet. 19(16):3295-3301(2010)Kantidakis, T., et al. Nucleic Acids Res. 38(4):1228-1239(2010)Albert, T.K., et al. Genome Biol. 11 (3), R33 (2010) :Kahle, J., et al. J. Biol. Chem. 284(14):9382-9393(2009)Wang, Y.L., et al. J. Biol. Chem. 283(49):33808-33815(2008)