

IER5 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP17351c**Specification**

IER5 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q5VY09](#)**IER5 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 51278**Other Names**

Immediate early response gene 5 protein, IER5

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.

IER5 Antibody (Center) Blocking Peptide - Protein Information**Name** IER5**Function**

Plays a role as a transcription factor (PubMed: [22132193](http://www.uniprot.org/citations/22132193), PubMed: [25355627](http://www.uniprot.org/citations/25355627)). Mediates positive transcriptional regulation of several chaperone genes during the heat shock response in a HSF1- dependent manner (PubMed: [25355627](http://www.uniprot.org/citations/25355627), PubMed: [25816751](http://www.uniprot.org/citations/25816751)). Mediates negative transcriptional regulation of CDC25B expression (PubMed: [22132193](http://www.uniprot.org/citations/22132193)). Plays a role in the dephosphorylation of the heat shock factor HSF1 and ribosomal protein S6 kinase (S6K) by the protein phosphatase PP2A (PubMed: [25816751](http://www.uniprot.org/citations/25816751), PubMed: [26496226](http://www.uniprot.org/citations/26496226)). Involved in the regulation of cell proliferation and resistance to thermal stress (PubMed: [22132193](http://www.uniprot.org/citations/22132193), PubMed: [25355627](http://www.uniprot.org/citations/25355627), PubMed: [26496226](http://www.uniprot.org/citations/26496226)). Involved in the cell cycle checkpoint and survival in response to ionizing radiation (PubMed: [19238419](http://www.uniprot.org/citations/19238419), PubMed: [19238419](http://www.uniprot.org/citations/19238419)).

[22132193](http://www.uniprot.org/citations/22132193)). Associates with chromatin to the CDC25B promoter (PubMed:[22132193](http://www.uniprot.org/citations/22132193)).

Cellular Location

Nucleus. Cytoplasm. Note=Predominantly cytoplasmic (PubMed:25816751). Translocated in the nucleus during heat shock (PubMed:25816751).

Tissue Location

Expressed in acute myeloid leukemia (AML) cells.

IER5 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

IER5 Antibody (Center) Blocking Peptide - Images**IER5 Antibody (Center) Blocking Peptide - Background**

This gene encodes a protein that is similar to other immediate early response proteins. In the mouse, a similar gene may play an important role in mediating the cellular response to mitogenic signals. Studies in rats found the expression of a similar gene to be increased after waking and sleep deprivation.

IER5 Antibody (Center) Blocking Peptide - References

Ding, K.K., et al. Radiat Environ Biophys 48(2):205-213(2009) Wan, D., et al. Proc. Natl. Acad. Sci. U.S.A. 101(44):15724-15729(2004) Cirelli, C., et al. Brain Res. 885(2):303-321(2000) Williams, M., et al. Genomics 55(3):327-334(1999)