

**ESX1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP17259a****Specification**

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**ESX1 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q8N693](#)**ESX1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 80712**Other Names**

Homeobox protein ESX1, Extraembryonic, spermatogenesis, homeobox 1, Homeobox protein ESX1-N, Homeobox protein ESX1-C, ESX1, ESX1L, ESX1R

**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.

**ESX1 Antibody (N-term) Blocking Peptide - Protein Information****Name** ESX1**Synonyms** ESX1L, ESX1R**Function**

May coordinately regulate cell cycle progression and transcription during spermatogenesis. Inhibits degradation of polyubiquitinated cyclin A and cyclin B1 and thereby arrests the cell cycle at early M phase. ESX1-N acts as a transcriptional repressor. Binds to the sequence 5'-TAATGTTATTA-3' which is present within the first intron of the KRAS gene and inhibits its expression. ESX1-C has the ability to inhibit cyclin turnover.

**Cellular Location**

Cytoplasm. Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108, ECO:0000269|PubMed:15235584} Note=ESX1-N localizes specifically to the nucleus while ESX1-C localizes specifically to the cytoplasm

**Tissue Location**

Expressed in placenta and testis. Expressed in testicular germ cell tumors.

## **ESX1 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **ESX1 Antibody (N-term) Blocking Peptide - Images**

## **ESX1 Antibody (N-term) Blocking Peptide - Background**

This gene encodes a dual-function 65 kDa protein that undergoes proteolytic cleavage to produce a 45 kDa N-terminal fragment with a paired-like homeodomain and a 20 kDa C-terminal fragment with a proline-rich domain. The C-terminal fragment localizes to the cytoplasm while the N-terminal fragment localizes exclusively to the nucleus. In contrast to human, the mouse homolog has a novel PN/PF motif in the C-terminus and is paternally imprinted in placental tissue. This gene likely plays a role in placental development and spermatogenesis.

## **ESX1 Antibody (N-term) Blocking Peptide - References**

Bonaparte, E., et al. Hum. Reprod. 25(6):1398-1403(2010) Wang, X., et al. Hum. Mol. Genet. 16(17):2053-2060(2007) Loschiavo, M., et al. Mamm. Genome 18(1):75-85(2007) Murthi, P., et al. Mol. Hum. Reprod. 12(5):335-340(2006) Yanagihara, M., et al. Oncogene 24(38):5878-5887(2005)