

HMGB3 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14662c**Specification**

HMGB3 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [O15347](#)**HMGB3 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 3149**Other Names**

High mobility group protein B3, High mobility group protein 2a, HMG-2a, High mobility group protein 4, HMG-4, HMGB3, HMG2A, HMG4

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.

HMGB3 Antibody (Center) Blocking Peptide - Protein Information**Name** HMGB3**Synonyms** HMG2A, HMG4**Function**

Multifunctional protein with various roles in different cellular compartments. May act in a redox sensitive manner. Associates with chromatin and binds DNA with a preference for non-canonical DNA structures such as single-stranded DNA. Can bend DNA and enhance DNA flexibility by looping thus providing a mechanism to promote activities on various gene promoters (By similarity). Proposed to be involved in the innate immune response to nucleic acids by acting as a cytoplasmic promiscuous immunogenic DNA/RNA sensor (By similarity). Negatively regulates B-cell and myeloid cell differentiation. In hematopoietic stem cells may regulate the balance between self-renewal and differentiation. Involved in negative regulation of canonical Wnt signaling (By similarity).

Cellular LocationNucleus {ECO:0000250|UniProtKB:P40618, ECO:0000255|PROSITE-ProRule:PRU00267}.
Chromosome Cytoplasm {ECO:0000250|UniProtKB:O54879}**Tissue Location**

Expressed predominantly in placenta.

HMGB3 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

HMGB3 Antibody (Center) Blocking Peptide - Images

HMGB3 Antibody (Center) Blocking Peptide - Background

HMGB3 belongs to the high mobility group (HMG) proteinsuperfamily. Like HMG1 (MIM 163905) and HMG2 (MIM 163906), HMGB3contains DNA-binding HMG box domains and is classified into the HMGbox subfamily. Members of the HMG box subfamily are thought to playa fundamental role in DNA replication, nucleosome assembly andtranscription (Wilke et al., 1997 [PubMed 9370291]; Nemeth et al.,2006 [PubMed 16945912]).

HMGB3 Antibody (Center) Blocking Peptide - References

Nemeth, M.J., et al. Proc. Natl. Acad. Sci. U.S.A. 103(37):13783-13788(2006)Ross, M.T., et al. Nature 434(7031):325-337(2005)Vaccari, T., et al. Genomics 49(2):247-252(1998)Wilke, K., et al. Gene 198 (1-2), 269-274 (1997) :Davis, D.L., et al. Gene 113(2):251-256(1992)