10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

HOXA9 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO2177a

Specification

HOXA9 Antibody - Product Information

Application	**WB, FC, ICC, E**
Primary Accession	P31269
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a**
Calculated MW	**30.2kDa KDa**

Description
In vertebrates, the genes encoding the class of transcription factors called homeobox genes are found in clusters named A, B, C, and D on four separate chromosomes. Expression of these proteins is spatially and temporally regulated during embryonic development. This gene is part of the A cluster on chromosome 7 and encodes a DNA-binding transcription factor which may regulate gene expression, morphogenesis, and differentiation. This gene is highly similar to the abdominal-B (Abd-B) gene of Drosophila. A specific translocation event which causes a fusion between this gene and the NUP98 gene has been associated with myeloid leukemogenesis. Read-through transcription exists between this gene and the upstream homeobox A10 (HOXA10) gene.

Immunogen
Purified recombinant fragment of human HOXA9 (AA: 1-272) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

HOXA9 Antibody - Additional Information

Gene ID 3205

Other Names
Homeobox protein Hox-A9, Homeobox protein Hox-1G, HOXA9, HOX1G

Dilution
WB~~1/500 - 1/2000
FC~~1/200 - 1/400
ICC~~N/A
E~~1/10000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
HOXA9 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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HOXA9 Antibody - Protein Information

Name HOXA9

Synonyms HOX1G

Function
Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis. Required for induction of SELE/E-selectin and VCAM1 on the endothelial cells surface at sites of inflammation (PubMed:22269951). Positively regulates EIF4E- mediated mRNA nuclear export and also increases the translation efficiency of ODC mRNA in the cytoplasm by competing with factors which repress EIF4E activity such as PRH (By similarity).

Cellular Location
Nucleus. Cytoplasm

HOXA9 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture