



## Human HOXA1 peptide (DAG-P0641)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	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. The encoded protein may be involved in the placement of hindbrain segments in the proper location along the anterior-posterior axis during development. Two transcript variants encoding two different isoforms have been found for this gene, with only one of the isoforms containing the homeodomain region. [provided by RefSeq, Jul 2008]
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<b>Conjugate</b>	Unconjugated
<b>Sequence Similarities</b>	Belongs to the Antp homeobox family. Labial subfamily. Contains 1 homeobox DNA-binding domain.
<b>Format</b>	Liquid
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

### GENE INFORMATION

<b>Gene Name</b>	<a href="#">HOXA1 homeobox A1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	HOXA1
<b>Synonyms</b>	HOXA1; homeobox A1; BSAS; HOX1; HOX1F; homeobox protein Hox-A1; homeobox 1F; homeo box A1; lab-like protein; Hox 1.6-like protein; homeobox protein Hox-1F; HOX A1 homeodomain protein;

<b>Entrez Gene ID</b>	<a href="#">3198</a>
<b>mRNA Refseq</b>	<a href="#">NM_005522.4</a>
<b>Protein Refseq</b>	<a href="#">NP_005513.1</a>
<b>UniProt ID</b>	P49639
<b>Chromosome Location</b>	7p15.3
<b>Pathway</b>	Neural Crest Differentiation, organism-specific biosystem;
<b>Function</b>	protein binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity;