



## Rabbit Anti-HMX2 antibody

SL11853R

<b>Product Name:</b>	HMX2
<b>Chinese Name:</b>	同源盒蛋白H6亚型2抗体
<b>Alias:</b>	H6 family homeo box 2; H6 family homeobox 2; H6 homeo box 2; H6L; HMX 2; HMX2 ; HMX2_HUMAN ; Homeo box (H6 family) 2; Homeo box protein H6 family member 2; Homeobox (H6 family) 2 ; Homeobox protein H6 family member 2; Homeobox protein HMX2; Nkx5 2.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Chicken,Dog,Pig,Cow,Horse,Rabbit,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	30kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human HMX2:122-200/273
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The homeobox DNA-binding domain is a 60 amino acid motif that is conserved among many species and functions to bind DNA via a helix-turn-helix structure, thereby playing a role in transcriptional regulation and the control of gene expression. HMX2 (H6 family homeobox 2), also known as H6L or Nkx5-2, is a 273 amino acid nuclear

protein that belongs to the HMX homeobox family and contains one homeobox DNA-binding domain. HMX2 functions as a transcription factor that assists in specification of neuronal cell types and is essential for proper development of hypothalamus and inner ear. Hemizygous deletions of the gene encoding HMX2 are thought to lead to vestibular dysfunction, inner ear malformations and congenital sensorineural hearing loss.

**Function:**

Transcription factor involved in specification of neuronal cell types and which is required for inner ear and hypothalamus development.

**Subcellular Location:**

Nucleus.

**Similarity:**

Belongs to the HMX homeobox family.  
Contains 1 homeobox DNA-binding domain.

**SWISS:**

A2RU54

**Gene ID:**

3167

**Database links:**

[Entrez Gene: 3167](#)Human

[Entrez Gene: 15372](#)Mouse

[Omir: 600647](#)Human

[SwissProt: A2RU54](#)Human

[SwissProt: P43687](#)Mouse

[Unigene: 444756](#)Human

[Unigene: 303357](#)Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.