

## Rabbit Anti-HOXA5/Cy5 Conjugated antibody

SL5713R-Cy5

<b>Product Name</b>	Anti-HOXA5/Cy5
<b>Chinese Name</b>	Cy5 标记的同源异型盒基因 HOXA5 蛋白抗体
<b>Alias</b>	Homeo box 1C antibody Homeobox A5 antibody Homeobox protein HOXA5 antibody HOX 1 antibody HOX 1.3 antibody HOX 1C antibody HOX1 antibody HOX1.3 antibody HOX1C antibody; HXA5_HUMAN.
<b>Research Area</b>	Tumour immunology Chromatin and nuclear signals Cyclin transcriptional regulatory factor
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	(predicted:Human,Mouse,Rat,Chicken,Pig,Cow,Horse,Rabbit,Sheep) IF=1:100-500
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	29 kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human HOXA5
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>Storage</b>	
<b>Product Detail</b>	<b>background:</b> HOXA5 upregulates both p53 promoter-reporter constructs and endogenous p53 synthesis, leading to apoptosis. HOXA5 is detectable in approximately one-third of primary tumors. Lack of HOXA5 expression strongly correlates with methylation of its promoter region, suggesting a causal role for methylation in the silencing of HOXA5 gene expression. HOXA5 expression

is an important step in tumorigenesis and loss of expression of p53 in human breast cancer may be primarily due to lack of expression of HOXA5.

**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. Also binds to its own promoter. Binds specifically to the motif 5'-CYYNATTA[TG]Y-3'.

**Subcellular Location:**

Nucleus.

**Similarity:**

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

**Database links:**

[Entrez Gene: 3202](#) Human

[Entrez Gene: 15402](#) Mouse

[Entrez Gene: 79241](#) Rat

[Omim: 142952](#) Human

[SwissProt: P20719](#) Human

[SwissProt: P09021](#) Mouse

[SwissProt: P52949](#) Rat

[Unigene: 655218](#) Human

[Unigene: 173](#) Mouse

[Unigene: 8465](#) Rat

**Important Note:**

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

p53 基因保护细胞不会癌变，HOXA5 协助细胞的 p53 保持适当水平。如果 HOXA5 水平下降或完全缺乏，p53 基因就不能防止细胞癌变。低水平的 HOXA5 通过另一种促甲基化机制使基因不能表达而发生。正常状



态下，p53 Tumour 抑制蛋白发现 DNA 的损伤，将信息传递给细胞以修复损伤或者导致死亡。过少或没有 p53 不仅减弱细胞正常功能，而且降低细胞感受损伤的能力。因此，若细胞缺少 HOXA5 蛋白也很可能是 Tumour 发展的重要过程。