



Rabbit Anti-HOXA5 antibody

SL5713R

Product Name:	HOXA5
Chinese Name:	同源异型盒基因HOXA5蛋白抗体
Alias:	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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	29 kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HOXA5:201-270/270
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
PubMed:	PubMed
Product Detail:	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.

SWISS:

P20719

Gene ID:

3202

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, p53Tumour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。