SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-HOXA5/AF647 Conjugated antibody

Catalog Number: SL5713R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-HOXA5/AF647
Immunogen:	KLH conjugated synthetic peptide derived from human HOXA5
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat,Chicken,Pig,Cow,Horse,Rabbit,Sheep)
Background:	background: 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:**

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

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	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. The p53 gene protects cells from becoming cancerous, and HOXA5 helps maintain appropriate levels of p53 in cells. If HOXA5 levels decrease or are completely absent, the p53 gene cannot prevent cells from becoming cancerous. Low levels of HOXA5 occur through another pro-methylation mechanism that prevents gene expression. Under normal conditions, the p53 Tumour suppressor protein detects DNA damage and transmits the information to the cell to repair the damage or cause death. Too little or no p53 not only weakens normal cell function but also reduces the cell's ability to sense damage. Therefore, if cells lack HOXA5 protein, it is also very likely to be an important process in Tumour development.