

AP06660PU-N**Polyclonal Antibody to HOXC6 / HOX3C - Aff - Purified****Alternate names:**

CP25, HHO.C8, Homeobox protein Hox-C6, Hox-3C

Quantity:

0.1 mg

Concentration:

1.0 mg/ml

Background:

The Hox proteins play a role in development and cellular differentiation by regulating downstream target genes. Specifically, the Hox proteins direct DNA-protein and protein-protein interactions that assist in determining the morphologic features associated with the anterior-posterior body axis. The mammalian Hox gene complex consists of 39 genes that are located on four linkage groups, which are dispersed over four chromosomes. Hox genes that occupy the same relative position along the 5' to 3' coordinate (trans-paralogous genes) are more similar in sequence and expression pattern than adjacent Hox genes on the same chromosome. HoxC6 sequence-specific transcription factor is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis. HoxC6 may be a novel potential therapeutic target for prostate cancer.

Uniprot ID:[P09630](#)**NCBI:**[NP_004494.1](#)**GenelD:**[3223](#)**Host:**

Rabbit

Immunogen:

Synthetic peptide, corresponding to amino acids 191-240 of Human Hox-C6.

Format:**State:** Liquid purified Ig fraction (> 95% pure by SDS-PAGE)**Purification:** Affinity-chromatography using epitope-specific immunogen**Buffer System:** Phosphate buffered saline (PBS), pH 7.2**Preservatives:** 0.05% sodium azide**Applications:****Western blot:** 1/500-1/1000.**Immunohistochemistry on paraffin sections:** 1/50-1/200.**Immunofluorescence:** 1/50-1/200.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight:

~ 26 kDa

Specificity:This antibody detects endogenous levels of Hox-C6 protein.
(region surrounding Gly220)**Species Reactivity:****Tested:** Human, Mouse and Rat.**Storage:**

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

Product Citations:**Purchased from Acris:**

1. Steens, J;Zuk, M;Benchellal, M;Bornemann, L;Teichweyde, N;Hess, J;Unger, K;Görgens, A;Klump, H;Klein, D;2017In Vitro Generation of Vascular Wall-Resident

Multipotent Stem Cells of Mesenchymal Nature from Murine Induced Pluripotent Stem Cells *Stem Cell Reports* 2017, 919-932, 8, 4. PubMed PMID: 28366456.

2. Steens, J;Zuk, M;Benchellal, M;Bornemann, L;Teichweyde, N;Hess, J;Unger, K;Gorgens, A;Klump, H;Klein, D. Jennifer Steens, Melanie Zuk, 2, 4 Mohamed

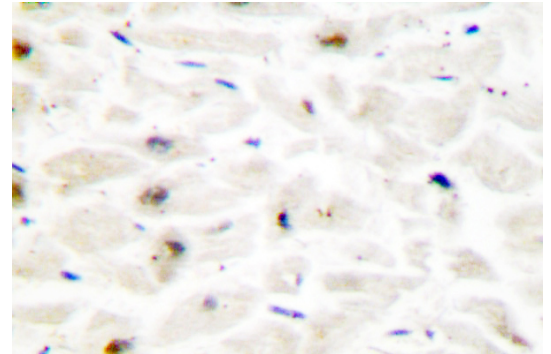
Benchellal, Lea Bornemann, Nadine Teichweyde, 2 Julia Hess, 3. *Stem Cell Reports* 2017, 919–9328. [http://www.cell.com/stem-cell-reports/pdfExtended/S2213-6711\(17\)30089-9](http://www.cell.com/stem-cell-reports/pdfExtended/S2213-6711(17)30089-9)

4. Steens, J;Zuk, M;Benchellal, M;Bornemann, L. In Vitro Generation of Vascular Wall-Resident Multipotent Stem Cells of Mesenchymal Nature from Murine Induced Pluripotent Stem Cells. *cell.com* 2018, 919-932, 8,4.

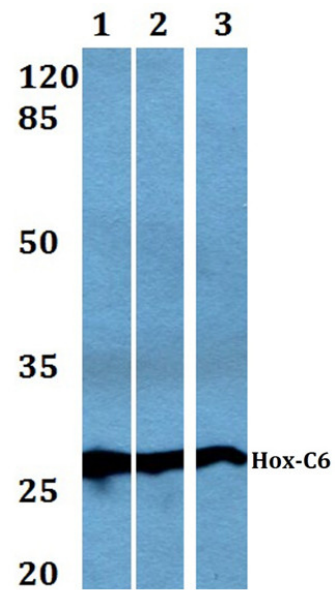
4. Steens, J;Zuk, M;Benchellal, M;Bornemann, L. In Vitro Generation of Vascular Wall-Resident Multipotent Stem Cells of Mesenchymal Nature from Murine Induced Pluripotent Stem Cells. *cell.com* 2018, 919-932, 8,4.

Pictures:

Immunohistochemistry (IHC) analyzes of Hox-C6 antibody (Cat.-No.: AP06660PU-N) in paraffin-embedded human heart tissue.



Western blot (WB) analysis of Hox-C6 (G220) pAb at 1/500 dilution. Lane 1: MCF-7 whole cell lysate. Lane 2: Raw264.7 whole cell lysate. Lane 3: PC12 whole cell lysate.



Western blot (WB) analysis of Hox-C6 antibody (Cat.-No.: AP06660PU-N) in extracts from HUVEC cells.

