

**Goat Anti-Homeobox B13 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1536a****Specification**

---

**Goat Anti-Homeobox B13 Antibody - Product Information**

Application	WB, E
Primary Accession	<a href="#">O92826</a>
Other Accession	<a href="#">NP_006352</a> , <a href="#">10481</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	30676

**Goat Anti-Homeobox B13 Antibody - Additional Information****Gene ID** 10481**Other Names**

Homeobox protein Hox-B13, HOXB13

**Dilution**

WB~~1:1000

E~~N/A

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-Homeobox B13 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-Homeobox B13 Antibody - Protein Information****Name** HOXB13**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. Binds preferentially to methylated DNA (PubMed: &lt;a href="http://www.uniprot.org/citations/28473536"

target="\_blank">28473536</a>).

#### Cellular Location

Nucleus.

#### Goat Anti-Homeobox B13 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Goat Anti-Homeobox B13 Antibody - Images



AF1536a (0.1 µg/ml) staining of HeLa cell lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### Goat Anti-Homeobox B13 Antibody - Background

This gene encodes a transcription factor that belongs to the homeobox gene family. Genes of this family are highly conserved among vertebrates and essential for vertebrate embryonic development. This gene has been implicated to play a role in fetal skin development and cutaneous regeneration. In mice, a similar gene was shown to exhibit temporal and spatial colinearity in the main body axis of the embryo, but was not expressed in the secondary axes, which suggests functions in body patterning along the axis. This gene and other HOXB genes form a gene cluster at chromosome the 17q21-22 region.

#### Goat Anti-Homeobox B13 Antibody - References

HOXB13 promotes androgen independent growth of LNCaP prostate cancer cells by the activation of E2F signaling. Kim YR, et al. Mol Cancer, 2010 May 27. PMID 20504375.

A FOXA1-binding enhancer regulates Hoxb13 expression in the prostate gland. McMullin RP, et al.

Proc Natl Acad Sci U S A, 2010 Jan 5. PMID 20018680.

The homeodomain protein HOXB13 regulates the cellular response to androgens. Norris JD, et al. Mol Cell, 2009 Nov 13. PMID 19917249.

Cytochrome P450 2D6 and homeobox 13/interleukin-17B receptor: combining inherited and tumor gene markers for prediction of tamoxifen resistance. Goetz MP, et al. Clin Cancer Res, 2008 Sep 15. PMID 18794098.

Epigenetic repression of the estrogen-regulated Homeobox B13 gene in breast cancer. Rodriguez BA, et al. Carcinogenesis, 2008 Jul. PMID 18499701.