## PRODUCT INFORMATION

Product name: HOXD13 antibody
Product type: Primary antibodies

**Description: Rabbit polyclonal to HOXD13** 

Immunogen: 3 synthetic peptides (human) conjugated to KLH

Reacts with: Hu, Ms

Tested applications: ELISA, WB and IF

## **GENE INFORMATION**

**Gene Symbol: HOXD13** 

Gene Name: homeobox D13

Ensembl ID: ENSG00000128714

Entrez GeneID: 3239

GenBank Accession number: AF005219

Omim ID: 142989 Swiss-Prot: P35453

Molecular weight of HOXD13: 36.1 kDa

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.

**Expected subcellular localization: Nucleus** 

Summary: This gene belongs to the homeobox family of genes. The homeobox genes encode a highly conserved family of transcription factors that play an important role in morphogenesis in all multicellular organisms. Mammals possess four similar homeobox gene clusters, HOXA, HOXB, HOXC and HOXD, located on different chromosomes, consisting of 9 to 11 genes arranged in tandem. This gene is one of several homeobox HOXD genes located in a cluster on chromosome 2. Deletions that remove the entire HOXD gene cluster or the 5' end of this cluster have been associated with severe limb and genital abnormalities. Mutations in this particular gene cause synpolydactyly. [provided by RefSeq]

## **Recommended dilution:**

 ELISA: Antibody specificity was verified by direct ELISA against the 3 immunogen peptides. A titer of 1/15000 has been determined. Appropriate specificity controls were run.

WB: 1/5000.IF: 1/1000.

Optimal dilutions/concentration should be determined by the end user.

Raised in: Rabbit

**Clonality: Polyclonal** 

Isotype: IgG

**Purity: Purified Antibody** 

Storage buffer: 0.5 X PBS, containing a final concentration of 50% Glycerol, 0.1% BSA and

0.01% Thimerosal.

Form: Liquid

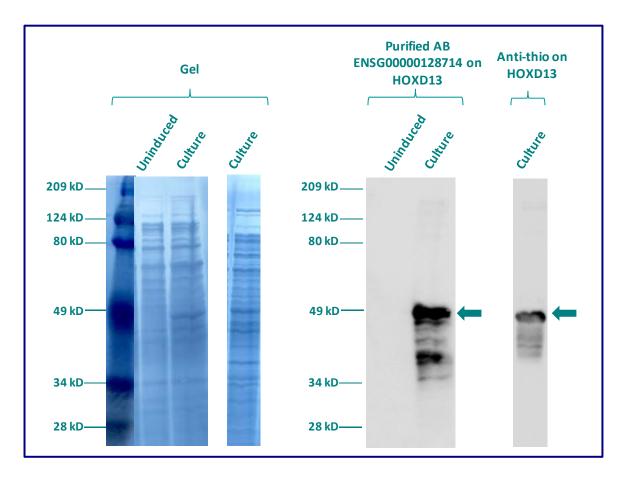
Storage instruction: Store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

The purified antibody ENSG00000128714 has been tested at 1/5000 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells).

An anti-thio (positive control) has been tested at 1/5000 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells) as a positive control.

Plasmid name: pBAD-DEST49.

Molecular weight of HOXD13: 50.1kDa (36.1kDa + another 14kDa for the tag).



**Gel concentration: 10%** 

Blocking: in 5% non-fat milk-PBST solution

1st Antibody: The antibodies are diluted in blocking buffer.

- Dilute the purified antibody ENSG00000128714 at 1:5000
- Dilute the anti-thio at 1:5000

60 minutes of incubation

2<sup>nd</sup> Antibody: The antibody is diluted in blocking buffer.

Dilute the anti-Rabbit IgG HRP conjugated at 1/10000

60 minutes of incubation

## **IMMUNOFLUORESCENCE ANALYSIS**

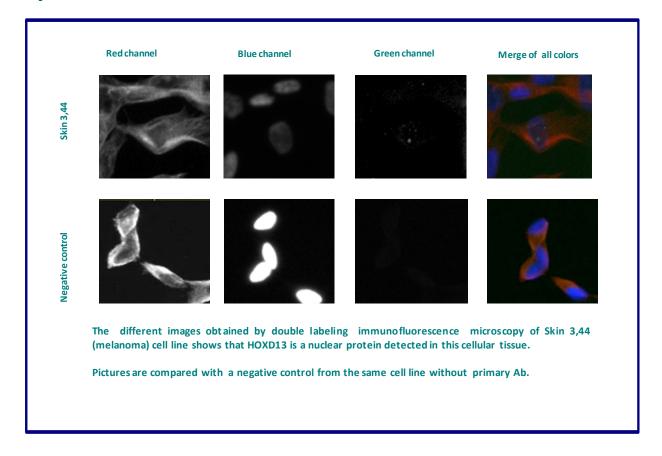
Immunofluorescence analysis of Homeobox protein Hox-D13 (HOXD13) expression in 2 cells lines (SH-SY5Y, Skin 3,44). The purified Antibody ENSG00000128714 has been tested at 1/5000.

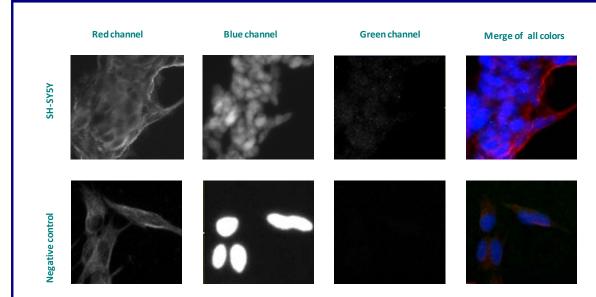
Red staining : cytoskeleton (microtubules/ $\alpha$ -tubuline)

**Blue staining: nucleus (Hoechst)** 

Green staining: anti-HOXD13 antibody (purified)

**Expected subcellular location: Nucleus** 





The different images obtained by double labeling immunofluorescence microscopy of SH-SY5Y (neuroblastoma) cell line shows that HOXD13 is a nuclear protein detected in this cellular tissue.

Pictures are compared with a negative control from the same cell line without primary Ab.