

## **PRODUCT INFORMATION**

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**Product name : HOXA13 antibody**

**Product type : Primary antibodies**

**Description : Rabbit polyclonal to HOXA13**

**Immunogen : 3 synthetic peptides (human) conjugated to KLH**

**Reacts with : Human, Mouse**

**Tested applications : ELISA, WB and IF**

## **GENE INFORMATION**

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**Gene Symbol : HOXA13**

**Gene Name : homeobox A13**

**Ensembl ID : ENSG00000106031**

**Entrez GeneID : 3209**

**Omim ID : 142959**

**Swiss-Prot : P31271**

**Molecular weight of HOXA13: 39.7kDa**

**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**

## **APPLICATION NOTE**

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### **Recommended dilution :**

- **ELISA:** Antibody specificity was verified by direct ELISA against the 3 immunogen peptides. A minimum titer of 1/ 7000 is 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.

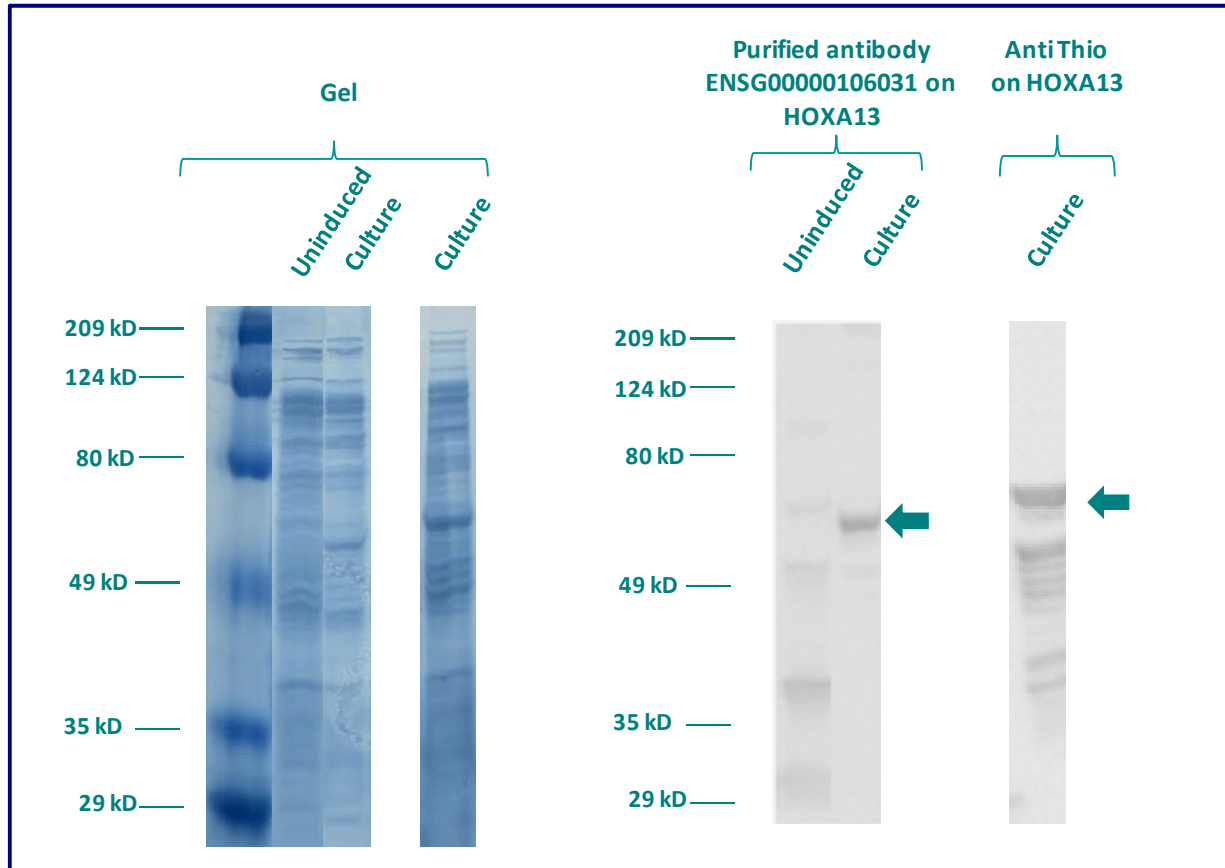
## WESTERN BLOT ON RECOMBINANT PROTEIN

The purified antibody ENSG00000106031 has been tested at 1/10000 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 HOXA13 : 53.7kDa (39.7kDa + another 14kDa for the tag).



Gel concentration: 10%

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

1<sup>st</sup> Antibody: The antibodies are diluted in blocking buffer.

- Dilute the purified antibody ENSG00000106031 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

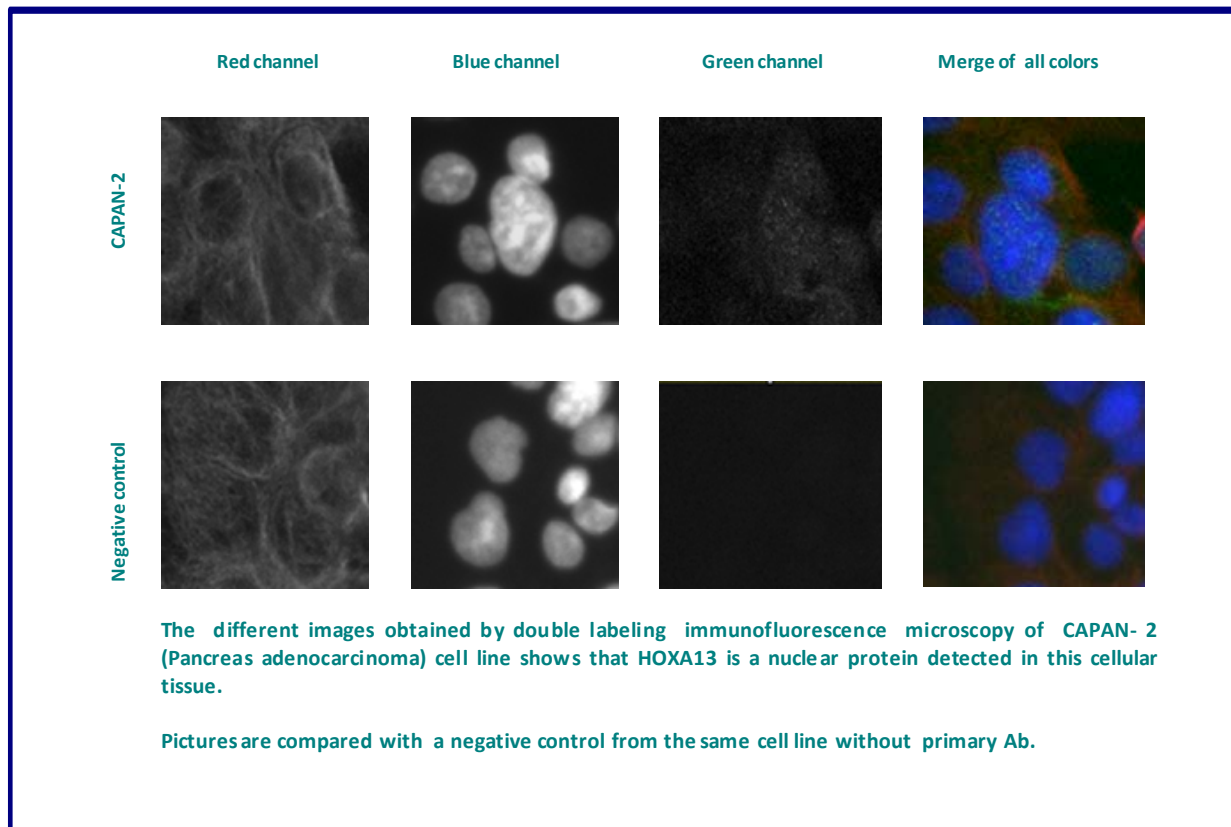
Immunofluorescence analysis of Homeobox protein Hox-A13 (HOXA13) expression in 4 cells lines (293T/17, Capan-2, SH-SY5Y, Skin 3.44). The purified Antibody ENSG00000106031 has been tested at 1/5000.

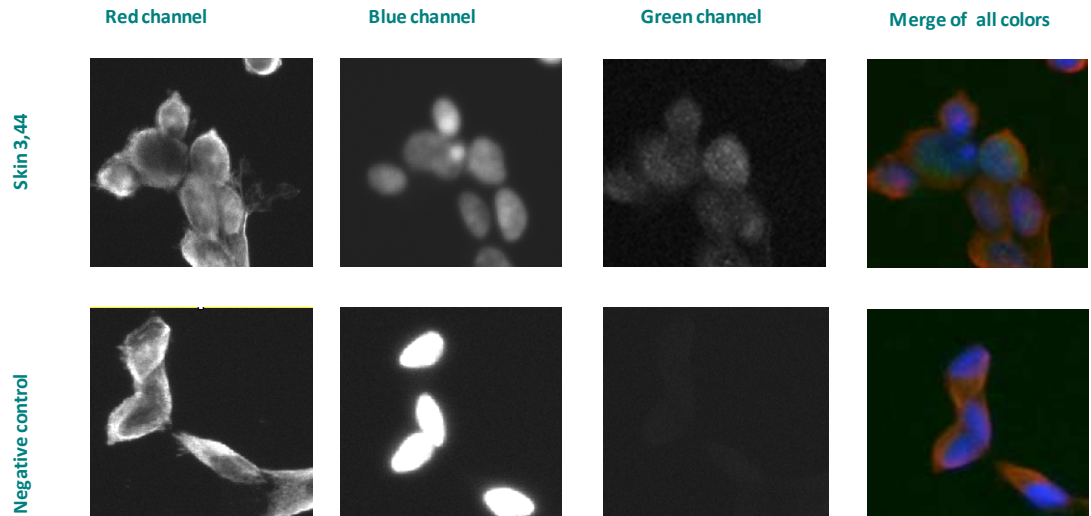
**Red staining** : cytoskeleton (microtubules/ $\alpha$ -tubuline)

**Blue staining** : nucleus (Hoechst)

**Green staining** : anti- HOXA13 antibody (purified)

**Expected subcellular location** : Nucleus





The different images obtained by double labeling immunofluorescence microscopy of Skin 3,44 (melanoma) cell line shows that HOXA13 is a nuclear protein detected in this cellular tissue.

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

Remaining cell lines tested gave a positive result with the same distribution