

## **PRODUCT INFORMATION**

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**Product name :** ZBTB5 antibody

**Product type :** Primary antibodies

**Description :** Rabbit polyclonal to ZBTB5

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

**Reacts with :** Hu, Ms

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

## **GENE INFORMATION**

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**Gene Symbol :** ZBTB5

**Gene Name :** zinc finger and BTB domain containing 5

**Ensembl ID :** ENSG00000168795

**Entrez Gene ID :** 9925

**GenBank Accession number :** AB002352

**Swiss-Prot :** O16052

**Molecular weight of ZBTB5 :** 74.3 kDa

**Function :** May be involved in transcriptional regulation.

**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 1/30000 has been determined. Appropriate specificity controls were run.
- **WB (recombinant protein):** 1/5000.
- **IF:** 1/5000.

**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.

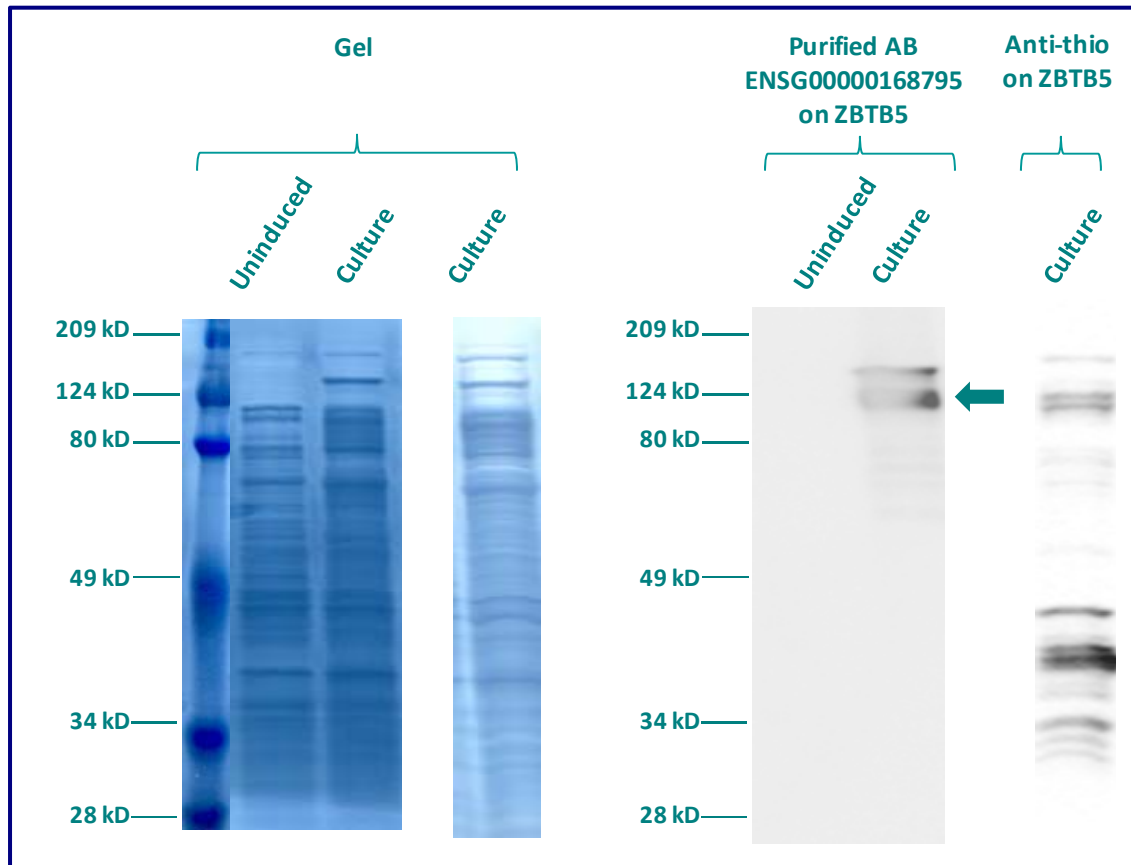
## WESTERN BLOT ON RECOMBINANT PROTEIN

The purified antibody ENSG00000168795 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 ZBTB5 : 88.3kDa (74.3kDa + another 14kDa for the tag).



The ZBTB5 clone was sequenced and is 100% correct.

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 ENSG00000168795 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

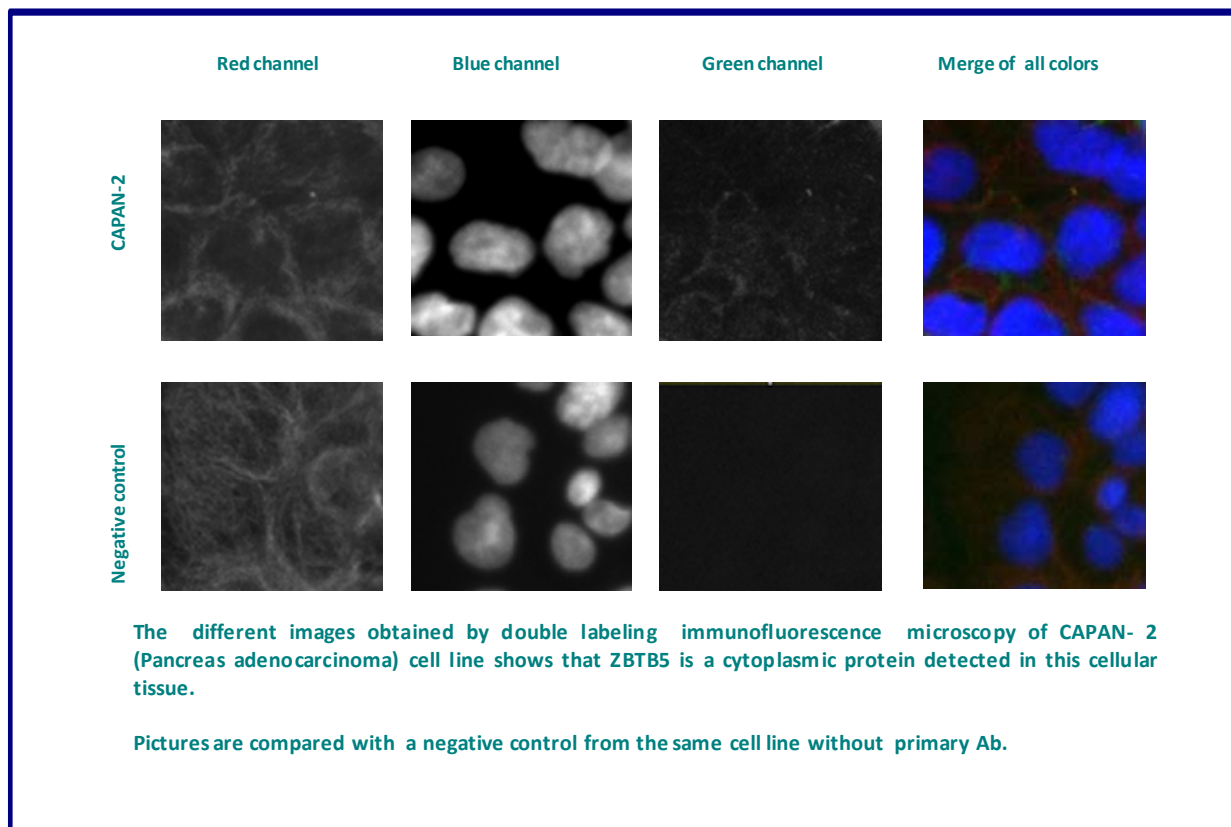
Immunofluorescence analysis of Zinc finger and BTB domain-containing protein 4 (ZBTB5) expression in 5 cells lines (HELA, Capan-2, SAOS-2, SH-SY5Y). The purified antibody ENSG00000168795 has been tested at 1/5000.

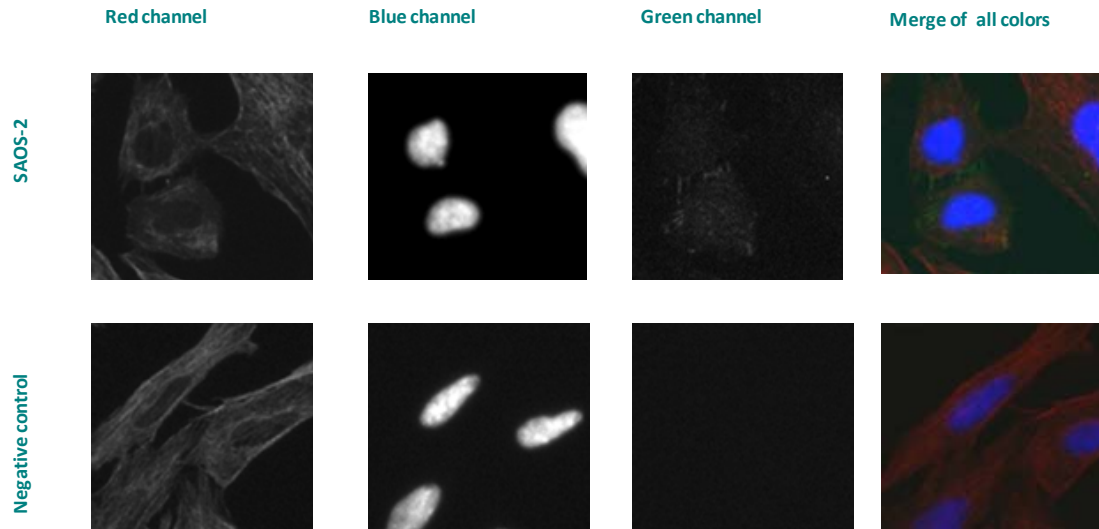
Red staining : cytoskeleton (microtubules/ $\alpha$ -tubuline)

Blue staining : nucleus (Hoechst)

Green staining : anti- ZBTB5 antibody (purified)

Expected subcellular location : Nucleus





The different images obtained by double labeling immunofluorescence microscopy of SAOS-2 (osteosarcoma) cell line shows that ZBTB5 is a cytoplasmic 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 a cytoplasmic distribution.