

## PRODUCT INFORMATION

---

**Product name :** NFRKB antibody

**Product type :** Primary antibodies

**Description :** Mouse monoclonal to NFRKB

**Immunogen :** 1 synthetic peptide (human) conjugated to KLH

**Reacts with :** Hu, Ms

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

## GENE INFORMATION

---

**Gene Symbol :** NFRKB

**Gene Name :** nuclear factor related to kappaB binding protein

**Ensembl ID :** ENSG00000170322

**Entrez GeneID :** 4798

**Swiss-Prot :** Q6P4R8

**Molecular weight :** 141.7, 139 & 138.9 kDa

**Function :** Binds to the DNA consensus sequence 5'-GGGGAATCTCC-3'.

Putative regulatory component of the chromatin remodeling INO80 complex which is involved in transcriptional regulation, DNA replication and probably DNA repair. Modulates the deubiquitinase activity of UCHL5 in the INO80 complex.

**Expected subcellular localization :** Nucleus.

**Expected tissue specificity :** Expressed in thymus, brain, testes, spleen and liver.

## **APPLICATION NOTE**

---

### **Recommended dilution :**

- **ELISA:** Antibody specificity was verified by direct ELISA against the 1 immunogen peptide. A titer of 10 has been determined. Appropriate specificity controls were run.
- **WB:** Dilution 1/1000
- **IF:** Dilution 1/10

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

**Raised in :** Mouse

**Clonality :** Monoclonal

**Isotype :** IgG

**Purity :** Purified Antibody

**Concentration:** 2mg/ml

**Storage buffer :** Containing a final concentration of PBS/glycerol (V/V), 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

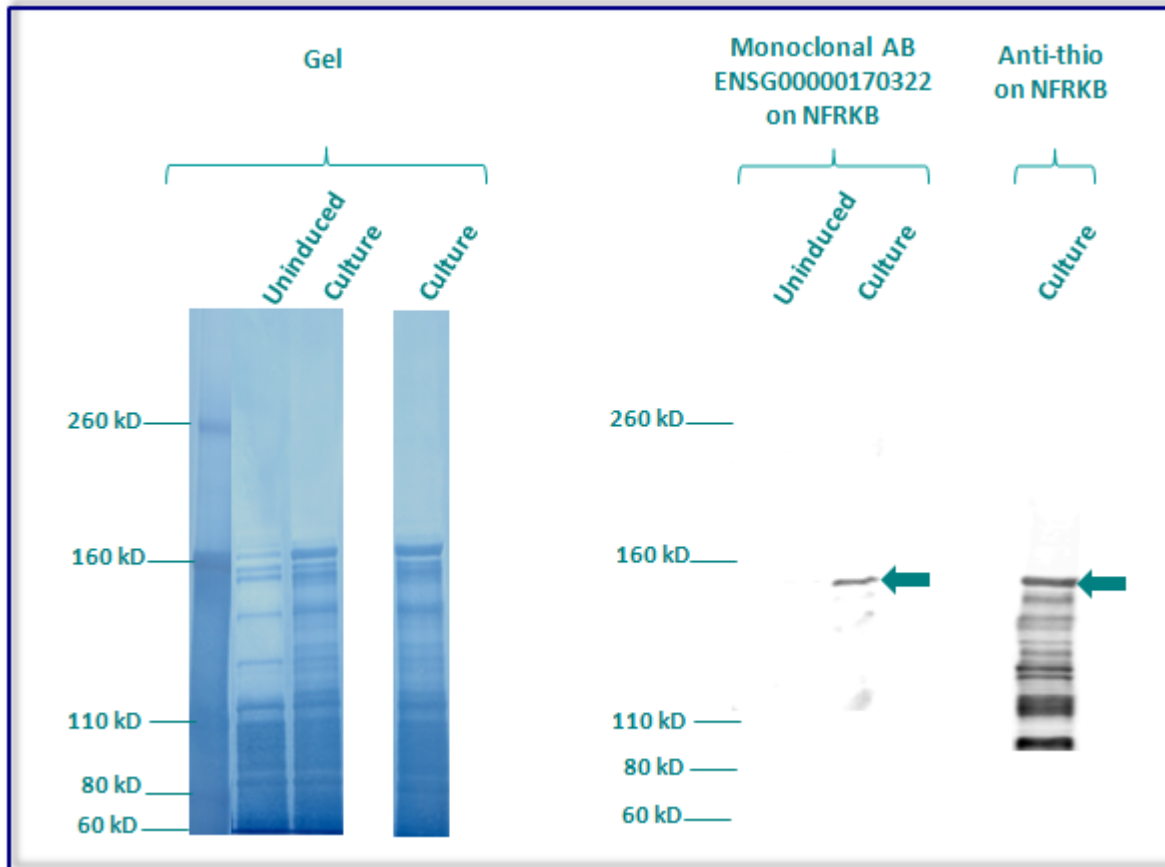
The monoclonal purified antibody ENSG00000170322 has tested at 1/1000 on uninduced (negative control) and induced culture of E.coli (one shot Top10 competent cells).

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

Clone : 3F3G7F11, Isotype : G1; kappa

Plasmid name : pBAD-DEST49.

Molecular weight of NFRKB : 153kDa (139kDa + another 14kDa for the tag).



Gel concentration: 5%

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

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

- Dilute the purified antibody ENSG00000170322 at 1:1000
- 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-Mouse IgG HRP conjugated at 1/10000

60 minutes of incubation

## IMMUNOFLUORESCENCE ANALYSIS

---

Immunofluorescence analysis of Nuclear factor related to kappa-B-binding protein (NFRKB) expression in 6 cells lines (HELA, 293T/17, Capan-2, SAOS-2, SH-SY5Y, Skin 3,44). The monoclonal antibody ENSG00000170322 has been tested at 1/10.

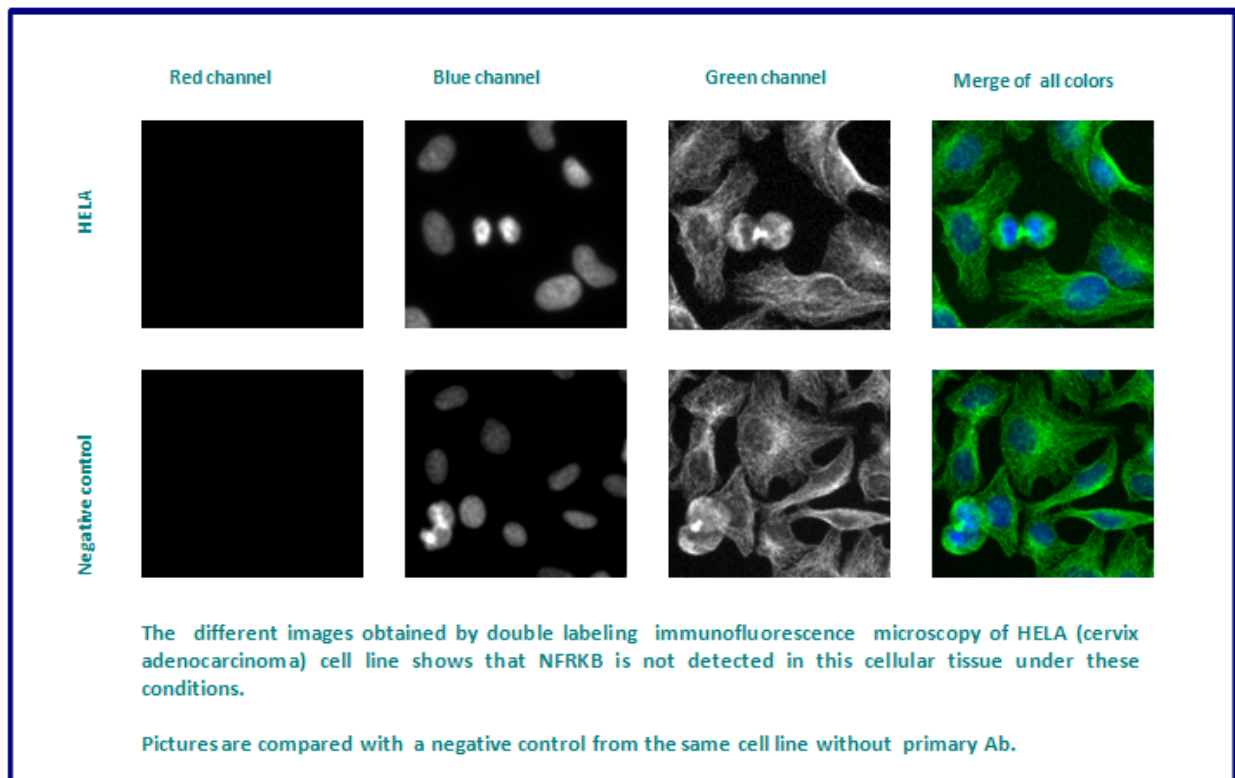
**Green staining :** cytoskeleton (microtubules/ $\alpha$ -tubuline)

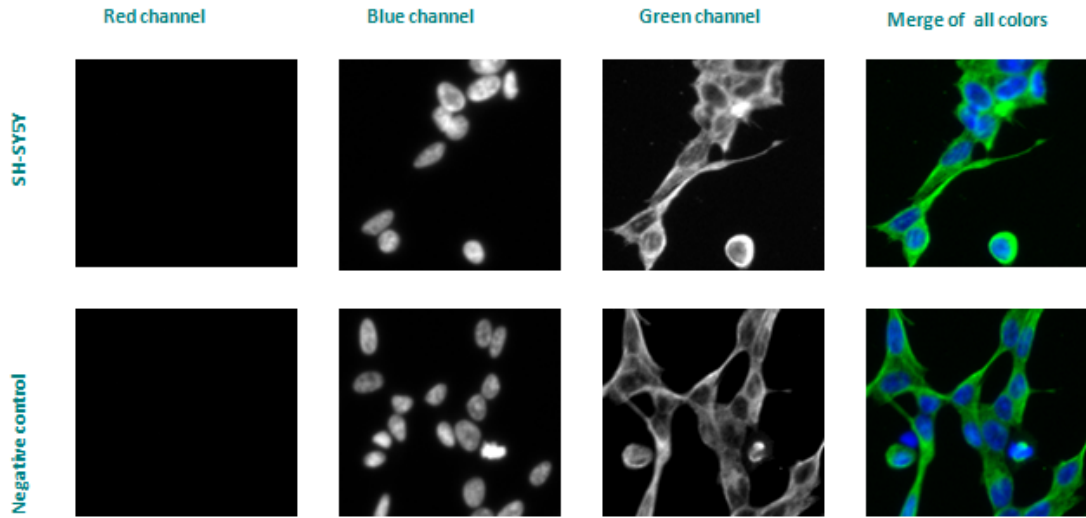
**Blue staining :** nucleus (Hoechst)

**Red staining :** anti- NFRKB antibody (purified)

**Expected subcellular location :** Nucleus

**Expected tissue specificity :** Expressed in thymus, brain, testes, spleen and liver





The different images obtained by double labeling immunofluorescence microscopy of SH-SY5Y (neuroblastoma) cell line shows that NFRKB is not detected in this cellular tissue under these conditions.

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

Remaining cell lines tested gave a negative results under these conditions.