

## TR $\alpha$ polyclonal antibody

Catalog: BCP01681

Host: Rabbit

Reactivity: Human,Pig

### BackGround:

Thyroid hormone nuclear receptors (TRs) are ligand-dependent transcription factors which regulate and control many metabolic and developmental processes. There are two genes encoding TRs identified to date, TR $\alpha$  and TR $\beta$ . TRs bind to thyroid hormone response elements (TREs) with half-site binding motifs in the orientation of palindromes, direct repeats or inverted palindromes. The affinities of binding are both variable and influenced differentially by 3,5,3'-triiodo-L-thyronine (T3). Transcriptional regulation by TRs is also modulated by heterodimerization with TR nuclear accessory proteins, the most extensively characterized of which are the retinoid X receptors (RXR $\alpha$ , RXR $\beta$  and RXR $\gamma$ ). The TR $\alpha$  isoform TR $\alpha$ 1 can display both a nuclear and undefined cytoplasmic location, and is the only TR that is imported into the mitochondrial matrix. TR $\alpha$ 2 is a C-terminal variant of TR $\alpha$ 1 that does not bind thyroid hormones (THs) and weakly binds DNA. TR $\alpha$ 2 acts as a dominant negative antagonist of TH signalling.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 58 kDa

### Swiss-Prot:

P10827

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:2000~1:5000

IF: 1:50~1:200

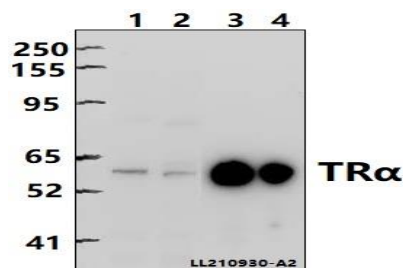
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

TR $\alpha$  polyclonal antibody detects endogenous levels of TR $\alpha$  protein.

### DATA:



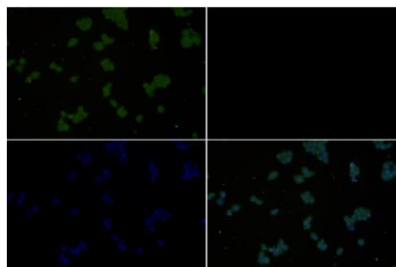
Western blot (WB) analysis of TR $\alpha$  polyclonal antibody at 1:5000 dilution

Lane1:THP-1 whole cell lysate(40ug)

Lane2:K562 whole cell lysate(40ug)

Lane3:The Kidney tissue lysate of Pig(40ug)

Lane4:The Liver tissue lysate of Pig(40ug)



Immunofluorescence analysis of HEK293T cells using TR $\alpha$  antibody at dilution of 1:50.

### Note:

For research use only, not for use in diagnostic procedure.