TRα polyclonal antibody

Catalog: GCP12 Host: Rabbit Reactivity: Human,Pig

BackGround:

Thyroid hormone nuclear receptors (TRs) are lig-and-dependent transcription factors which regulate and control many metabolic and developmental processes. There are two genes encoding TRs identified to date, TRα and TRβ. 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 dif-ferentially by 3,5,3'-triiodo-L-thyronine (T3). Transcrip-tional regulation by TRs is also modulated by heterodi-merization with TR nuclear accessory proteins, the most extensively characterized of which are the retinoid X re-ceptors (RXRα, RXRβ and RXRγ). The TRα isoform TRα1 can display both a nuclear and undefined cytoplas-mic location, and is the only TR that is imported into the mitochondrial matrix. TRα2 is a C-terminal variant of TRα1 that does not bind thyroid hormones (THs) and weakly binds DNA. TRα2 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 im-munogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:2000~1:5000

IF: 1:50~1:200

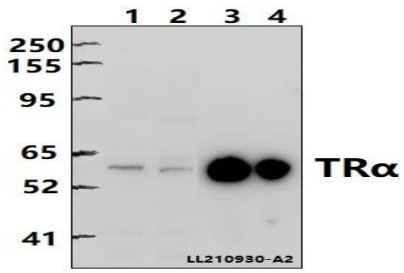
Storage&Stability:

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

Specificity:

TRα polyclonal antibody detects endogenous levels of TRα protein.

DATA:



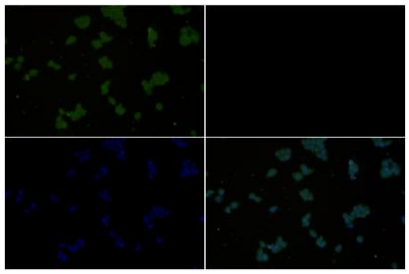
Western blot (WB) analysis of TRα polyclonal antibody at 1:5000 dilu-tion

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 TRα antibody at dilution of 1:50.

Note:

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

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