SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Thyroid hormone receptor alpha antibody

Catalog Number: SL6221R

FOR RESEARCH USE ONLY

[DATASHEET]

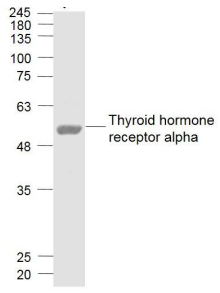
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Thyroid hormone receptor alpha
Immunogen:	KLH conjugated synthetic peptide derived from human Thyroid hormone receptor alpha: 81-180/490
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 Flow-Cyt=1ug/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Chicken,Pig,Horse,Rabbit,Sheep,GuineaPig)
Predicted MW.:	55kDa
Subcellular Location:	The nucleus
Background:	Thyroid hormone receptors (TR) are ligand dependent, intracellular proteins that stimulate transcription of specific genes by binding to specific DNA sequences called hormone response elements following activation by the appropriate hormone. Thyroid hormones, through their interaction with TR, effect metabolic processes, growth and development in many tissues by regulating the expression of genes for growth hormone, malic enzyme and several hepatic proteins. There are two forms of TR; TR alpha (on chromosome 17) and TR beta (on chromosome 3). Each of these isoforms also has two isoforms; TR alpha 1 and TR alpha 2, and TR beta 1 and TR beta 2 respectively. TR alpha 1 and 2 are identical through amino acid 370, where their sequences diverge. TR alpha 2, which does not bind T3 and is a strong negative regulator of the functional TR, is 80 amino acids longer than TR alpha 1.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

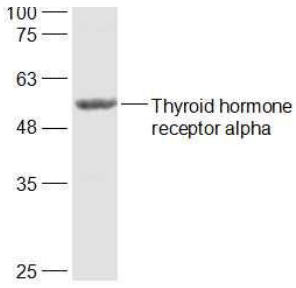
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	Function: Nuclear hormone receptor that can act as a repressor or activator of transcription. High affinity receptor for thyroid hormones, including triiodothyronine and thyroxine. **Subunit:** Interacts with ncoa2. **Subcellular Location:** Nucleus. **Tissue Specificity:** After the mid-blastula transition (MBT), expressed throughout the deep cells, which give rise to the embryo proper. In adults, isoform 2 shows highest expression in the eye and liver. Expressed in adult gonads. **Similarity:** Belongs to the nuclear hormone receptor family. NR1 subfamily. Contains 1 nuclear receptor DNA-binding domain. **Database links:** **Entrez Gene:** 7067 Human **Entrez Gene:** 21833 Mouse **Entrez Gene:** 81812 Rat Omim: 190120 Human **SwissProt:** P10827 Human **SwissProt:** P63058 Mouse **SwissProt:** P63059 Rat **Unigene:** 724 Human **Unigene:** 265917 Mouse **Unigene:** 442648 Mouse **Unigene:** 11307 Rat

[VALIDATION IMAGES]



Sample:
Liver (Rat) Lysate at 40 ug
Primary: Anti- Thyroid hormone receptor alpha (SL6221R) at 1/500 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 55 kD
Observed band size: 55 kD



Sample:
Liver (Mouse) Lysate at 40 ug
Primary: Anti-Thyroid hormone receptor alpha (SL6221R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 55 kD
Observed band size: 55 kD

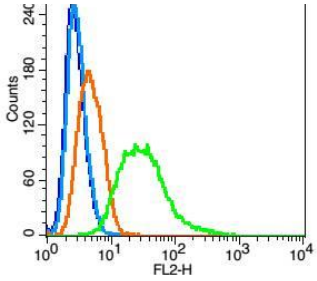
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Blank control(blue): Hela(fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice). Primary Antibody:Rabbit Anti- Thyroid hormone receptor alpha antibody(SL6221R), Dilution: 1µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

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