Rabbit ESRRG Polyclonal Antibody | anti-ESRRG antibody

Anti-ESRRG Picoband antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124649	**Rabbit**	**Human, Mouse, RatNo cross reactivity with other proteins.**	**Western Blot, Immunohistochemistry, ELISA**

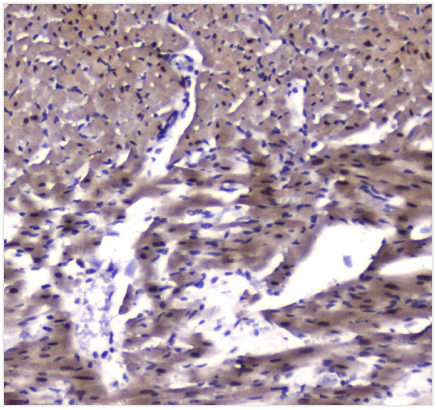
PRODUCT SYNONYMS

ESRRG; Polyclonal Antibody; Anti-ESRRG Picoband antibody; Estrogen-related receptor gamma; ERR gamma-2; Estrogen receptor-related protein 3; Nuclear receptor subfamily 3 group B member 3; ERR3; ERRG2; KIAA0832; NR3B3; anti-ESRRG antibody

PRODUCT SPECIFICATIONS

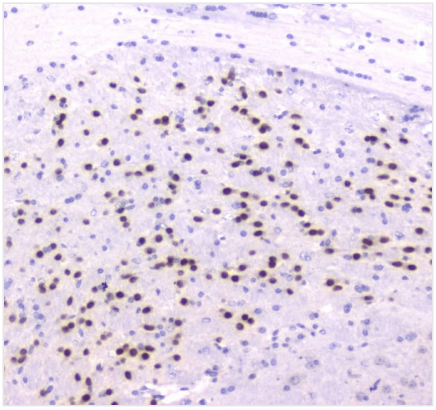
Host	Rabbit
Reactivity	Human, Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Form/Format	Lyophilized
Sequence Length	470
Applicable Applications for anti-ESRRG antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	E Coli-derived human ESRRG recombinant protein (Position: Q302-V458).
Subcellular Localization	Nucleus.
Tissue Specificity	Expressed in the heart, kidney, brain, lung, bone marrow, adrenal gland, trachea, spinal cord and thyroid gland.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



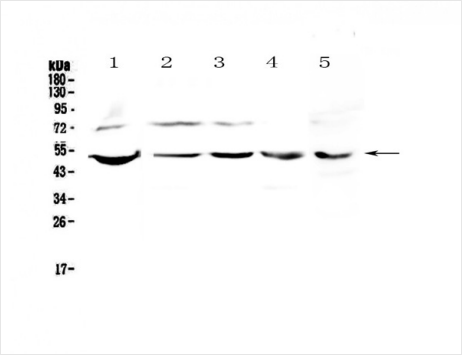
IHC (Immunohistochemisry)

Figure 3. IHC analysis of ESRRG using anti-ESRRG antibody (AAA124649).ESRRG was detected in paraffin-embedded section of rat cardiac muscle tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-ESRRG Antibody (AAA124649) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of ESRRG using anti-ESRRG antibody (AAA124649).ESRRG was detected in paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-ESRRG Antibody (AAA124649) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of ESRRG using anti-ESRRG antibody (AAA124649).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human PANC-1 whole cell lysates,Lane 2: human 22RV1 whole cell lysates,Lane 3: human COLO-320 whole cell lysates,Lane 4: human SW620 whole cell lysates,Lane 5: mouse SP20 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ESRRG antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ESRRG at approximately 51KD. The expected band size for ESRRG is at 51KD.

ADDITIONAL INFORMATION

Related Product Information for anti-ESRRG antibody	Description: Estrogen-related receptor gamma (ERR-gamma), also known as NR3B3, is a nuclear receptor that in humans is encoded by the ESRRG gene. This gene encodes a member of the estrogen receptor-related receptor (ESRR) family, which belongs to the nuclear hormone receptor superfamily. All members of the ESRR family share an almost identical DNA binding domain, which is composed of two C4-type zinc finger motifs. The ESRR members are orphan nuclear receptors; they bind to the estrogen response element and steroidogenic factor 1 response element, and activate genes controlled by both response elements in the absence of any ligands. The ESRR family is closely related to the estrogen receptor (ER) family. They share target genes, co-regulators and promoters, and by targeting the same set of genes, the ESRRs seem to interfere with the ER-mediated estrogen response in various ways. It has been reported that the family member encoded by this gene functions as a transcriptional activator of DNA cytosine-5-methyltransferases 1 (Dnmt1) expression by direct binding to its response elements in the DNMT1 promoters, modulates cell proliferation and estrogen signaling in breast cancer, and negatively regulates bone morphogenetic protein 2-induced osteoblast differentiation and bone formation. Multiple alternatively spliced transcript variants have been identified, which mainly differ at the 5' end and some of which encode protein isoforms differing in the N-terminal region. Protein Function: Orphan receptor that acts as transcription activator in the absence of bound ligand. Binds specifically to an estrogen response element and activates reporter genes controlled by estrogen response elements (By similarity). Induces the expression of PERM1 in the skeletal muscle.

NCBI AND UNIPROT INFORMATION

NCBI GI #	197209821
NCBI GeneID	2104
NCBI Accession #	NP_001127757.1
NCBI GenBank Nucleotide #	NM_001134285.2
UniProt Accession #	P62508; O75454; O96021; Q68DA0; Q6P274; Q6PK28; Q6TS38; A8K4I0; A8K6I2; B3KY84; E9PGB7; F8W8J3
Molecular Weight	52,462 Da
NCBI Official Full Name	estrogen-related receptor gamma isoform 2
NCBI Official Synonym Full Names	estrogen related receptor gamma
NCBI Official Symbol	ESRRG
NCBI Official Synonym Symbols	ERR3; NR3B3; ERRgamma
NCBI Protein Information	estrogen-related receptor gamma
UniProt Protein Name	Estrogen-related receptor gamma
UniProt Gene Name	**ESRRG**
UniProt Synonym Gene Names	ERR3; ERRG2; KIAA0832; NR3B3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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