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[Primary Antibody]

Rabbit Anti-Estrogen Related Receptor beta antibody

Catalog Number: SL6212R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Estrogen Related Receptor beta
Immunogen:	KLH conjugated synthetic peptide derived from human Estrogen Related Receptor beta: 131-230/508
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:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,GuineaPig)
Predicted MW.:	56kDa
Subcellular Location:	The nucleus
Background:	Estrogen related receptor beta, a NR3 Steroid Receptor, has been shown to affect early placental development. Also it can act as a repressor of transcriptional activity mediated by the glucocorticoid receptor (GR). It binds as a monomer to the extended half-site TNAAGTGCA and as a homodimer to the estrogen response element (ERE), palindromic thyroid hormone response element (TRE(pal)), and SF-1 response element, but not to the glucocorticoid response element (GRE). Estrogen related receptor beta mutations lead to abnormal development of the chorion and defective diploid trophoblast proliferation, and are lethal during midgestation. Expression has been documented in mice in the extraembryonic ectoderm that gives rise to the chorion. ESTs have been isolated from normal human eye,

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	lung, and testis libraries. The ligand for the receptor is PPARgamma coactivator 1 (PGC-1) beta. **Function:** Nuclear receptor that binds DNA as monomer. **Subunit:** Monomer. **Subcellular Location:** Nuclear DISEASE: Defects in ESRRB are the cause of deafness autosomal recessive type 35 (DFNB35) [MIM:608565]. DFNB35 is a form of sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information. **Similarity:** Belongs to the nuclear hormone receptor family. NR3 subfamily. Contains 1 nuclear receptor DNA-binding domain. **Database links:** **Entrez Gene:** 490798 Dog **Entrez Gene:** 2103 Human **Entrez Gene:** 26380 Mouse **Entrez Gene:** 299210 Rat Omim: 602167 Human **SwissProt:** O95718 Human **SwissProt:** Q61539 Mouse **SwissProt:** P11475 Rat **Unigene:** 337489 Human **Unigene:** 435845 Human **Unigene:** 235550 Mouse **Unigene:** 104984 Rat

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