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Product Information

Anti-Estrogen-Related Receptor β
produced in rabbit, affinity isolated antibody

Catalog Number **E0156**

Synonyms: Anti-ERRβ; Anti-NR3B2

Product Description

Anti-Estrogen-Related Receptor β is produced in rabbit using as immunogen a synthetic peptide conjugated to KLH. The peptide corresponds to the internal domain of human estrogen-related receptor β. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-Estrogen-Related Receptor β specifically recognizes human estrogen-related receptor β by immunohistochemistry with formalin-fixed, paraffin-embedded tissues. Not tested for other uses. The immunizing peptide has 93% homology with the rat and mouse gene. Other species reactivity has not been confirmed.

Estrogen-related receptor β, a NR3 Steroid Receptor, has been shown to affect early placental development. ERRβ also can act as a repressor of transcriptional activity mediated by the glucocorticoid receptor (GR). ERRβ 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). ERRβ mutations lead to abnormal development of the chorion and defective diploid trophoblast proliferation, and are lethal during midgestation.

Expression: ERRβ expression has been documented in mice in the extraembryonic ectoderm that gives rise to the chorion. ESTs (Expressed Sequence Tags) have been isolated from normal human eye, lung, and testis libraries.

Ligand: PPARγ coactivator 1β (PGC-1β) (Kamei *et al*., 2003).

Reagent

Supplied as a solution of 1 mg/ml in phosphate buffered saline, containing 0.1% sodium azide as a preservative.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunohistochemistry: an optimal working concentration of ~1 μg/ml is determined using human liver, hepatocytes.

Note: In order to obtain the best results and assay sensitivity in different techniques and preparations, we recommend determining optimal working dilutions by titration test.

This product is manufactured by MBL International Corporation

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