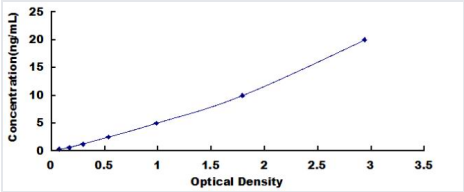
Estrogen Receptor Beta (ERb) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Estrogen Receptor Beta (ERb), ELISA Kit
Full Product Name	Human Estrogen Receptor Beta (ERb) ELISA Kit
Product Gene Name	ERb elisa kit
Product Synonym Names	ER-B; ESRB; ESTRB; NR3A2; NR3-A2; ESR2; Estrogen Receptor 2; Nuclear Receptor Subfamily 3,Group A,Member 2
Species Reactivity	Human
Assay Type	Sandwich
Samples	Serum, Plasma, Tissue Homogenates, Cell Lysates or Other Biological Fluids.
Detection Range	0.312-20ng/mL
Sensitivity	0.115ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	53,209 Da
OMIM	601663
3D Structure	ModBase 3D Structure for Q92731
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for ERb elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to ERb. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to ERb. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain ERb, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of ERb in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of ERb elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ERb purchase	MBS459101 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Estrogen Receptor Beta (ERb) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing ERb. The ELISA analytical biochemical technique of the MBS459101 kit is based on ERb antibody-ERb antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ERb antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ERb. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of ERb elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ERb. It may not necessarily be applicable to this product.

NCBI GI #	94538325
NCBI GeneID	2100
NCBI Accession #	NP_001035365.1
UniProt Primary Accession #	Q92731
UniProt Secondary Accession #	O60608; O60685; O60702; O60703; O75583; O75584; Q0MWT5; Q0MWT6; Q86Z31; A8K8K5; G3V5M5
UniProt Related Accession #	Q92731
GenBank Nucleotide #	NM_001040275.1
NCBI Official Full Name	estrogen receptor beta isoform 2
NCBI Official Synonym Full Names	estrogen receptor 2
NCBI Official Symbol	ESR2
NCBI Official Synonym Symbols	Erb; ESRB; ESTRB; NR3A2; ER-BETA; ESR-BETA
UniProt Protein Name	Estrogen receptor beta
UniProt Synonym Protein Names	Nuclear receptor subfamily 3 group A member 2
UniProt Gene Name	ESR2
UniProt Synonym Gene Names	ESTRB; NR3A2; ER-beta
NCBI Protein Information	estrogen receptor beta
NCBI Summary for ERb	This gene encodes a member of the family of estrogen receptors and superfamily of nuclear receptor transcription factors. The gene product contains an N-terminal DNA binding domain and C-terminal ligand binding domain and is localized to the nucleus, cytoplasm, and mitochondria. Upon binding to 17beta-estradiol or related ligands, the encoded protein forms homo- or hetero-dimers that interact with specific DNA sequences to activate transcription. Some isoforms dominantly inhibit the activity of other estrogen receptor family members. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been fully characterized. [provided by RefSeq, Jul 2008]
UniProt Comments for ERb	Nuclear hormone receptor. Binds estrogens with an affinity similar to that of ESR1, and activates expression of reporter genes containing estrogen response elements (ERE) in an estrogen-dependent manner (PubMed:20074560). Isoform beta-cx lacks ligand binding ability and has no or only very low ere binding activity resulting in the loss of ligand-dependent transactivation ability. DNA-binding by ESR1 and ESR2 is rapidly lost at 37 degrees Celsius in the absence of ligand while in the presence of 17 beta-estradiol and 4-hydroxy-tamoxifen loss in DNA-binding at elevated temperature is more gradual.
Research Articles on ERb	**1.** We found higher nuclear (n)ERalpha and nERbeta5 and lower cytoplasmic (c)ERalpha expression in advanced ovarian cancers. Lower ERbeta1 expression was also detected in high grade cancers. Loss of nERalpha and cERbeta2 expression were observed in clear cell histological subtypes. Higher nERbeta5 and lower cERbeta5 expression were associated with serous/clear cell subtypes, poor disease-free and overall survival.

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