

ARG22851 anti-Estrogen Receptor beta antibody [57/3]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [57/3] recognizes Estrogen Receptor beta
Tested Reactivity	Hu
Tested Application	IHC-P
Host	Mouse
Clonality	Monoclonal
Clone	57/3
Isotype	IgG1
Target Name	Estrogen Receptor beta
Species	Human
Immunogen	Synthetic peptide around the C-terminus of Human Estrogen Receptor beta2. (CGMKMETLLPEATMEQ)
Conjugation	Un-conjugated
Alternate Names	ER-BETA; NR3A2; ESTRB; Estrogen receptor beta; ER-beta; ESRB; Erb; Nuclear receptor subfamily 3 group A member 2; ESR-BETA

Application Instructions

Application table	Application	Dilution
	IHC-P	1:50 - 1:500
Application Note	<p>IHC-P: Antigen Retrieval: Boil tissue section in Citrate buffer (pH 6.2). Glycine/ EDTA preparations have also been used with success in some tissues.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>	

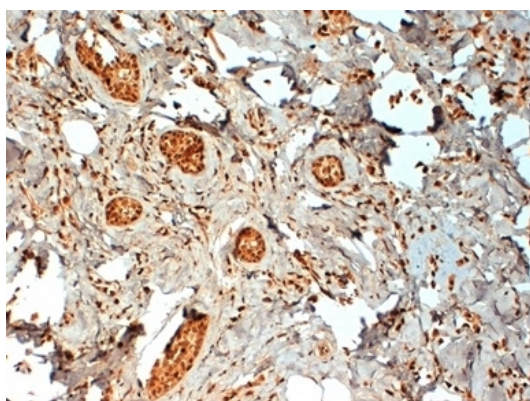
Properties

Form	Liquid
Purification	Unpurified.
Buffer	PBS and 0.09% Sodium azide
Preservative	0.09% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

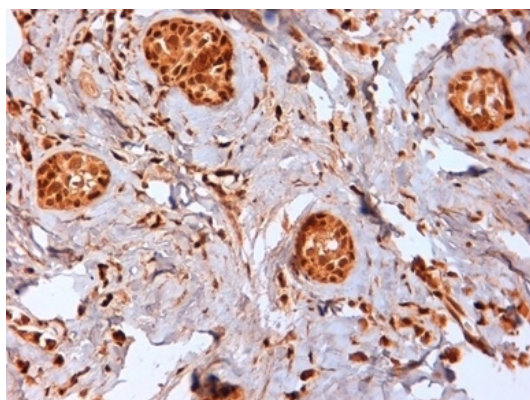
Gene Symbol	ESR2
Gene Full Name	estrogen receptor 2 (ER beta)
Background	This gene encodes a member of the family of estrogen receptors and superfamily of nuclear receptor transcription factors. The gene product contains an N-terminal DNA binding domain and C-terminal ligand binding domain and is localized 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]
Function	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. 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. [UniProt]
Calculated Mw	59 kDa
PTM	Phosphorylation at Ser-87 and Ser-105 recruits NCOA1.

Images



ARG22851 anti-Estrogen Receptor beta antibody [57/3] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human breast cancer biopsy stained with ARG22851 anti-Estrogen Receptor beta antibody [57/3]. Antigen Retrieval: Boil tissue section in Citrate buffer (pH 6.2). (Low power).



ARG22851 anti-Estrogen Receptor beta antibody [57/3] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human breast cancer biopsy stained with ARG22851 anti-Estrogen Receptor beta antibody [57/3]. Antigen Retrieval: Boil tissue section in Citrate buffer (pH 6.2). (High power).