

## ARG56572 anti-Estrogen Receptor beta antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes Estrogen Receptor beta
Tested Reactivity	Hu
Predict Reactivity	Bov, Rat, Chk, Pig
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Estrogen Receptor beta
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 369-397 (Center) of Human Estrogen Receptor beta.
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
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	MCF7	

### Properties

Form	Liquid
Purification	Purified
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide.
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

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Database links	<a href="#">GeneID: 2100 Human</a> <a href="#">Swiss-port # Q92731 Human</a>
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.
Cellular Localization	Nucleus {ECO:0000255 PROSITE- ProRule:PRU00407, ECO:0000269 PubMed:19126643}

## Images

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ARG56572 anti-Estrogen Receptor beta antibody WB image

Western blot: 35 µg of MCF7 cell lysate stained with ARG56572 anti-Estrogen Receptor beta antibody.