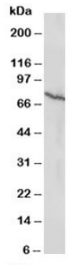
Estrogen Receptor Antibody (beta) (R30294)

Catalog No.	Formulation	Size
R30294	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q92731
Applications	Western blot: 0.5-1ug/ml
Limitations	This Estrogen Receptor antibody is available for research use only.



Western blot testing of Estrogen receptor antibody and MCF-7 lysate (human breast cancer line). Predicted molecular weight: 53~59 kDa.

Description

Estrogen Receptor beta Antibody detects Estrogen receptor-beta, referred to as ESR2 or ERb, a member of the superfamily of nuclear receptors which can transduce extracellular signals into transcriptional responses. This gene is mapped to 14q and comprises 8 exons spanning approximately 40 kb. It is expressed in multiple tissues, including developing spermatids of the testis and in ovarian granulosa cells. ERb is homologous to the previously identified ERa and has an overlapping but nonidentical tissue distribution. The DNA-binding domain of ERb is 96% conserved compared to ERa, and the ligand-binding domain shows 58% conserved residues. Estrogen receptor beta is expressed in human thymus, spleen, ovary, and testis. ERb mRNA was coexpressed with ERa and its splice variants in 60% of prolactinomas,

100% of mixed growth hormone /prolactin tumors, and 29% of gonadotroph tumors. Gene expression was not limited to ERa-positive tumor subtypes, however, and was also found in 100% of null cell tumors, 80% of somatotroph tumors, and 60% of corticotroph tumors.

For comprehensive detection of Estrogen receptor beta across hormone signaling and tumor biology studies, see our Estrogen Receptor beta antibody (clone ERb455).

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Estrogen Receptor antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of human Estrogen Receptor beta (HGSIYIPSSYVDSHHEYPAMTFYS) was used as the immunogen for this Estrogen Receptor antibody.

Storage

After reconstitution, the Estrogen Receptor antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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