

Product Datasheet

Estrogen Receptor beta 1 Antibody (orb699734)

Description	Estrogen receptors (ER) are members of the steroid/thyroid hormone receptor superfamily of ligand-activated transcription factors. Estrogen receptors, including ER-alpha and ER-beta, contain DNA binding and ligand binding domains and are critically involved in regulating the normal function of reproductive tissues. They are located in the nucleus, though some estrogen receptors associate with the cell surface membrane and can be rapidly activated by exposure of cells to estrogen. ER-alpha and ER-beta are differentially activated by various ligands. Receptor-ligand interactions trigger a cascade of events, including dissociation from heat shock proteins, receptor dimerization, phosphorylation and the association of the hormone activated receptor with specific regulatory elements in target genes. Evidence suggests that ER-alpha and ER-beta may be regulated by distinct mechanisms even though they share many functional characteristics.
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	FACS, IF, IHC-P, WB
Immunogen	Amino acids CEDSKSKEGSQNPQSQ from the C terminus of the human estrogen receptor beta 1 isomer were used as the immunogen for the Estrogen Receptor beta 1 antibody.
Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced), 0.05% sodium azide
Storage	Store the Estrogen Receptor beta 1 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).
Note	For research use only
Application notes	Optimal dilution of the Estrogen Receptor beta 1 antibody should be determined by the researcher.

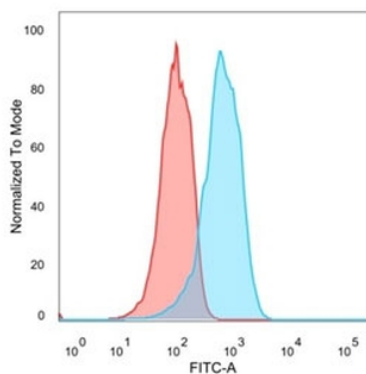
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Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide
Isotype	Mouse IgG2a, kappa
Clonality	Monoclonal
Clone Number	PGP5/10
Antibody Type	Primary Antibody
Purity	Protein G affinity chromatography
Uniprot ID	Q92731
Hazard Information	This Estrogen Receptor beta 1 antibody is available for research use only.
Dilution Range	Flow cytometry: 2-4ug/million cells,Immunofluorescence: 2-4ug/ml,Western blot: 1-2ug/ml,Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT
Expiration Date	12 months from date of receipt.



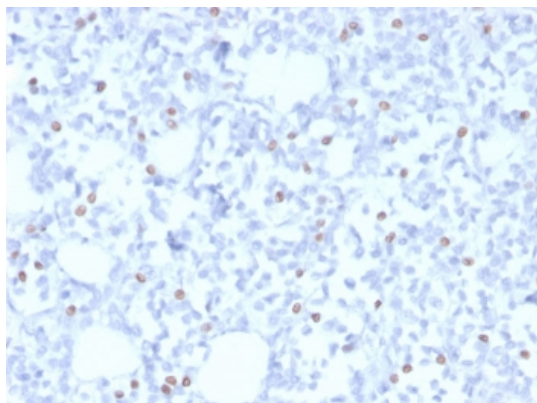
Flow cytometry testing of PFA-fixed human MCF7 cells with Estrogen Receptor beta 1 antibody (clone PGP5/10);
Red=isotype control, Blue= Estrogen Receptor beta 1 antibody.

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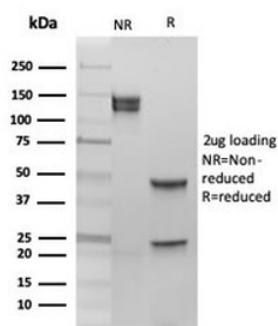
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IHC staining of FFPE human breast carcinoma with Estrogen Receptor beta 1 antibody (clone PGP5/10). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free Estrogen Receptor beta 1 antibody (clone PGP5/10) as confirmation of integrity and purity.

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