

Product datasheet

Anti-Estrogen Receptor beta antibody [14C8] - BSA and Azide free ab288

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Overview

Product name	Anti-Estrogen Receptor beta antibody [14C8] - BSA and Azide free
Description	Mouse monoclonal [14C8] to Estrogen Receptor beta - BSA and Azide free
Host species	Mouse
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment corresponding to Human Estrogen Receptor beta aa 1-153. Expressed in E.coli. Database link: Q92731
Positive control	WB: Recombinant fusion protein, human liver and intestine, HEK-293T cells.
General notes	This product was changed from ascites to tissue culture supernatant on 23 rd October 2018. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Constituent: 100% PBS
Carrier free	Yes
Purity	Immunogen affinity purified

Purification notes	Purified from TCS
Clonality	Monoclonal
Clone number	14C8
Myeloma	NS1
Isotype	IgG2b
Light chain type	kappa

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab288 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	 (2)	Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 59 kDa. Blocking condition: 5% non-fat milk in TBST, RT, 60min. Primary antibody incubation: 4°C overnight.

Target

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.

Tissue specificity

Isoform beta-1 is expressed in testis and ovary, and at a lower level in heart, brain, placenta, liver, skeletal muscle, spleen, thymus, prostate, colon, bone marrow, mammary gland and uterus. Also found in uterine bone, breast, and ovarian tumor cell lines, but not in colon and liver tumors. Isoform beta-2 is expressed in spleen, thymus, testis and ovary and at a lower level in skeletal muscle, prostate, colon, small intestine, leukocytes, bone marrow, mammary gland and uterus. Isoform beta-3 is found in testis. Isoform beta-4 is expressed in testis, and at a lower level in spleen, thymus, ovary, mammary gland and uterus. Isoform beta-5 is expressed in testis, placenta, skeletal muscle, spleen and leukocytes, and at a lower level in heart, lung, liver, kidney, pancreas, thymus, prostate, colon, small intestine, bone marrow, mammary gland and uterus. Not expressed in brain.

Sequence similarities

Belongs to the nuclear hormone receptor family. NR3 subfamily.
Contains 1 nuclear receptor DNA-binding domain.

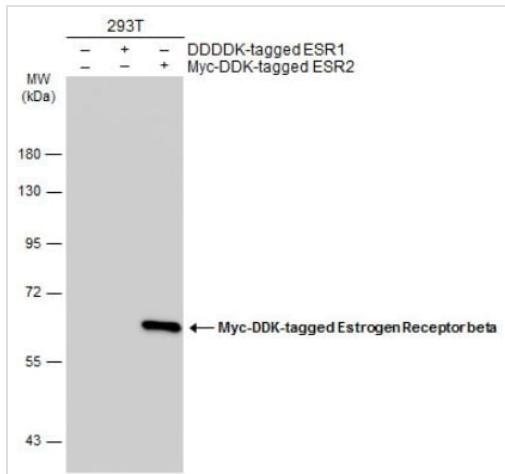
Domain

Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal ligand-binding domain.

Cellular localization

Nucleus.

Images



Western blot - Anti-Estrogen Receptor beta antibody [14C8] - BSA and Azide free (ab288)

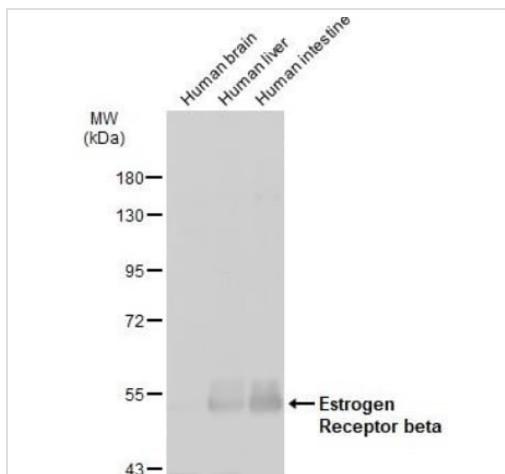
All lanes : Anti-Estrogen Receptor beta antibody [14C8] - BSA and Azide free (ab288) at 1/5000 dilution

Lane 1 : Non-transfected HEK-293T whole cell extracts

Lane 2 : Transfected HEK-293T whole cell extracts

Lysates/proteins at 30 µg per lane.

Predicted band size: 59 kDa



Western blot - Anti-Estrogen Receptor beta antibody [14C8] - BSA and Azide free (ab288)

All lanes : Anti-Estrogen Receptor beta antibody [14C8] - BSA and Azide free (ab288) at 1/500 dilution

Lane 1 : Human brain tissue lysate

Lane 2 : Human liver tissue lysate

Lane 3 : Human intestine tissue lysate

Lysates/proteins at 30 µg per lane.

Secondary

All lanes : Mouse IgG antibody (HRP) at 1/5000 dilution

Developed using the ECL technique.

Predicted band size: 59 kDa

7.5% gel.

Running condition: 80V, 15min; 140V, 40min.

Transfer condition: Semi-dry, 18 V, 60min (NC membrane)

blocking condition: 5% non-fat milk in TBST, RT, 60min.

primary antibody incubation: 4°C overnight.

Secondary antibody incubation: room temperature for 1 hour.

Washing conditions: 5 ml TBST, 4 x 5min.

ECL exposure.

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