



International Office

Everest Biotech Ltd

Vector Laboratories, Inc.
6737 Mowry Ave
Newark, CA 94560
United States

Customer Service:

customerservice@vectorlabs.com

Technical Service:

technical@vectorlabs.com

Tel: +1 (800) 227-6666

www.everestbiotech.com

**Research Use Only. Not for
diagnostic or therapeutic use.**

EB11581 - Goat Anti-Estrogen receptor beta (aa417-428) Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: Erb, ER-BETA, ESR2, ESRB, ESR-BETA, ESTRB, estrogen nuclear receptor beta variant a, estrogen nuclear receptor beta variant b, estrogen receptor 2 (ER beta), estrogen receptor beta, estrogen receptor beta 4, NR3A2, nuclear receptor subfamily 3 group A member 2, OTTHUMP00000180647

Official Symbol: ESR2

Accession Number(s): NP_001428.1; NP_001035365.1; NP_001201831.1; NP_001201832.1

Human GenelD(s): [2100](#)

Important Comments: This antibody is expected to recognize all reported isoforms (NP_001428.1; NP_001035365.1; NP_001201831.1; NP_001201832.1). Reported variants represent identical protein: NP_001035365.1, NP_001035366.1

Immunogen

Peptide with sequence C-TQDADSSRKLAH, from the internal region of the protein sequence according to NP_001428.1; NP_001035365.1; NP_001201831.1; NP_001201832.1.

Please note the [peptide](#) is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:128000.

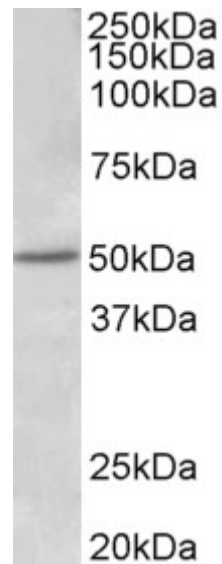
Western blot: Approx 50kDa band observed in Human Placenta lysates (calculated MW of 53.0kDa according to NP_001035366.1). Recommended concentration: 1-3µg/ml. Primary incubation was 1 hour.

Immunofluorescence: Strong expression of the protein seen in the nucleus of HeLa and MCF7 cells. Recommended concentration: 10µg/ml.

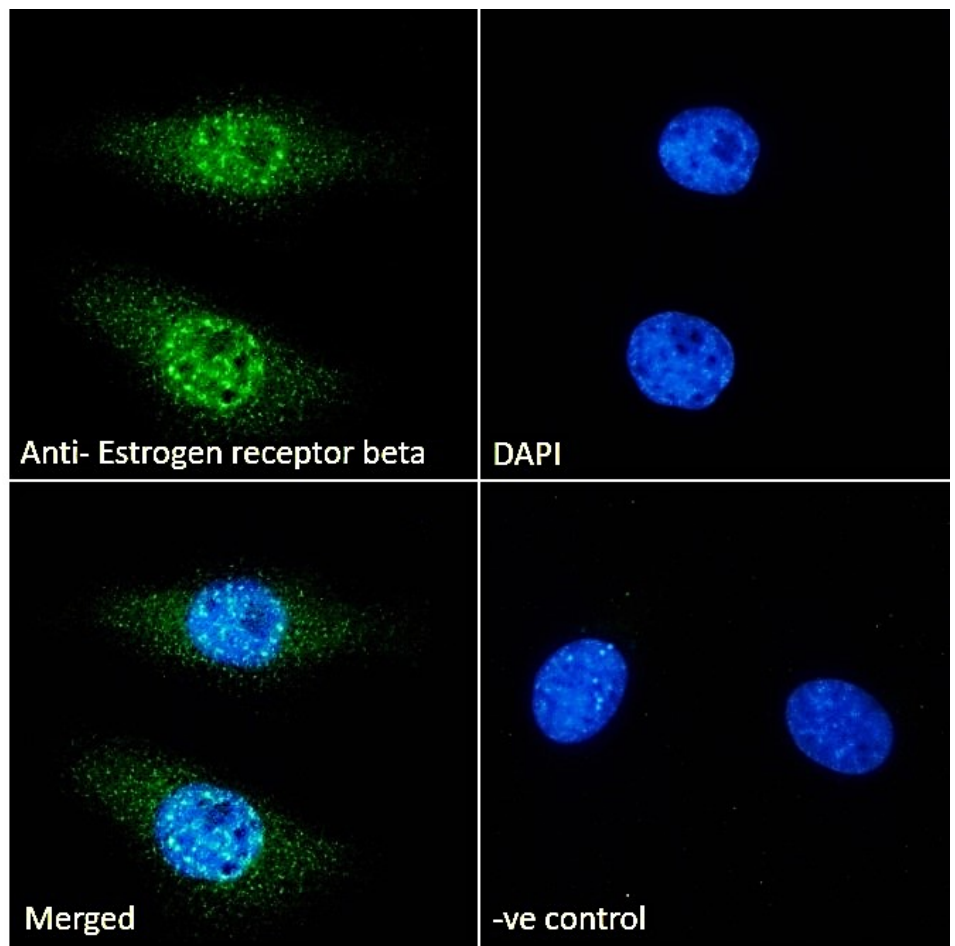
Species Reactivity

Tested: Human

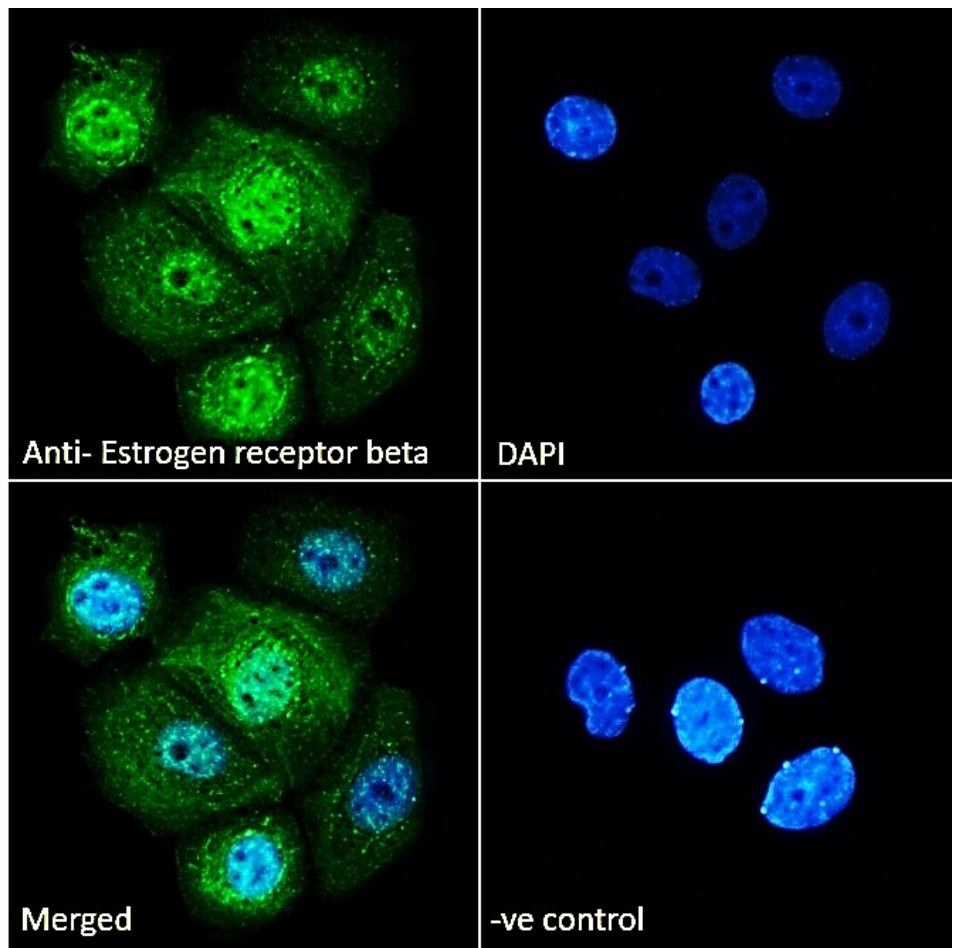
Expected from sequence similarity: Human



EB11581 (1 μ g/ml) staining of Human Placenta lysate (35 μ g protein in RIPA buffer). Detected by chemiluminescence.



EB11581 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 μ g/ml) followed by Alexa Fluor 488 secondary antibody (2 μ g/ml), showing nuclear staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 μ g/ml) followed by Alexa Fluor 488 secondary antibody (2 μ g/ml).



EB11581 Immunofluorescence analysis of paraformaldehyde fixed MCF7 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing strong nuclear and weak cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).