CoraLite® Plus 488-conjugated ESR2 Monoclonal antibody

Catalog Number:CL488-60197   Featured Product

proteintech®
Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
CL488-60197

Size:
100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG5103

GenBank Accession Number:
BC024181

GeneID (NCBI):
2100

UNIPROT ID:
Q92731

Full Name:
estrogen receptor 2 (ER beta)

Calculated MW:
59 kDa

Observed MW:
50 kDa

Purification Method:
Protein G purification

CloneNo.:
5D2C9

Recommended Dilutions:
WB 1:500-1:1000

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:
WB, FC (Intra)

Species Specificity:
human, mouse

Positive Controls:

WB : MCF-7 cells, SW 1990 cells

Background Information

Estrogen receptor-beta (ESR2) is a member of the superfamily of nuclear receptors, which can transduce extracellular signals into transcriptional responses. It 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. 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. ESR2 exists various isoform and range of calculated molecular weight of isoforms is 50-60 kDa. The experiment detected two bands for ESR2 in isolated human germ cells, one at 60 kDa and a weaker one at 50 kDa (PMID: 14766008).

Storage

Storage:
Store at -20℃. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
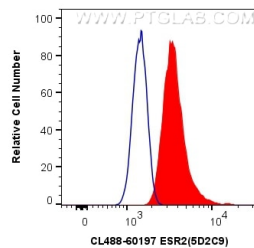Aliquoting is unnecessary for -20°C storage

1X10^6 MCF-7 cells were intracellularly stained with 0.4 ug CoraLite® Plus 488 Anti-Human ESR2 (CL488-60197, Clone:5D2C9) (red), or 0.4 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).
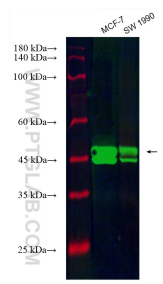
Various lysates were subjected to SDS PAGE followed by western blot with CL488-60197 (ESR2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.