

For Research Use Only

Phospho-Estrogen Receptor α (Ser118) Recombinant monoclonal antibody

Catalog Number: 84564-6-RR



Basic Information

Catalog Number:

84564-6-RR

Size:

100ul, Concentration: 1000 μ g/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC128573

GeneID (NCBI):

2099

UNIPROT ID:

P03372

Full Name:

estrogen receptor 1

Calculated MW:

595 aa, 66 kDa

Observed MW:

66 kDa

Purification Method:

Protein A purification

CloneNo.:

250278F8

Recommended Dilutions:

WB: 1:2000-1:10000

FC (Intra): 0.13 μ g per 10^6 cells in a 100 μ l suspension

Applications

Tested Applications:

WB, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

WB : T-47D cells,

FC (Intra) : λ phosphatase treated MCF-7 cells,

Background Information

Estrogen Receptor α (ER α , gene symbol ESR1) is a member of the nuclear-receptor superfamily that functions as a ligand-dependent transcription factor. Dependent upon cell and promoter context, ER α regulates transcription through its two activation domains, AF-1 and AF-2. AF-2 is contained within the LBD and becomes active upon E2 binding. AF-1 however, is activated by phosphorylation of ER α at several sites, most notably serine 118 (S118) and serine 167 (S167), sites that are regulated by multiple signaling pathways. (PMID: 25597633)

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

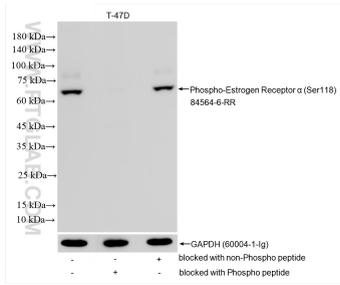
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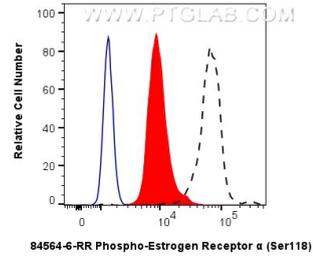
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Selected Validation Data



T-47D cell lysates were subjected to SDS PAGE followed by western blot with 84564-6-RR (Phospho-Estrogen Receptor α (Ser118) antibody) blocked with BSA only, Phospho-Estrogen Receptor α (Ser118) peptide or non-Phospho peptide at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH (60004-1-Ig) antibody as a loading control.



1X10⁶ MCF-7 cells untreated (dashed lines) or treated with λ phosphatase which intracellularly stained with 0.13 ug Phospho-Estrogen Receptor α (Ser118) Recombinant monoclonal antibody (84564-6-RR, Clone:250278F8) and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.13 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with Flow Cytometry