

# Human Phospho-ERα/NR3A1 (S118) Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG Catalog Number: AF5954

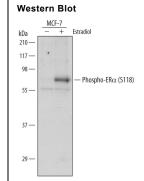
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Phospho-ERα/NR3A1 (S118) in Western blots.		
Source	Polyclonal Rabbit IgG		
Purification	Antigen Affinity-purified		
Immunogen	Phosphopeptide containing the human ERα/NR3A1 S118 site Accession # P03372		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

#### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

#### DATA



## Detection of Human Phospho-ER $\alpha$ /NR3A1 (S118) by Western Blot.

Western blot shows lysates of MCF-7 human breast cancer cell line untreated (-) or treated (+) with 100 nM estradiol for 60 minutes. PVDF Membrane was probed with 1 µg/mL of Rabbit Anti-Human Phospho-ERa/NR3A1 (S118) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5954) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Phospho-ERa/NR3A1 (S118) at approximately 65 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

#### PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

#### Stability & Storage

### Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

#### BACKGROUND

ERα (Estrogen receptor alpha; also Estradiol receptor and NR3A1) is a 65-70 kDa member of the NR3 subfamily, nuclear hormone receptor family of proteins. It is widely expressed, and serves as a strong activator of estrogen-responsive genes. ERα is normally quiescent and bound to heat-shock proteins and immunophilins. Following β-estradiol binding, it becomes activated, either homodimerizes or heterodimerizes with ERβ, and binds to DNA with multiple co-activators. Major phosphorylation sites exist at Tyr537, Ser167 and Ser118. Phosphorylation at Ser118 regulates ERα's role in transcription and cell growth.

