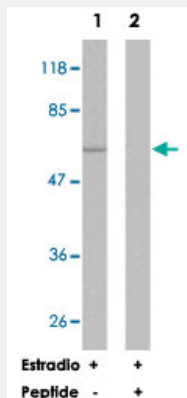


ESR1 polyclonal antibody

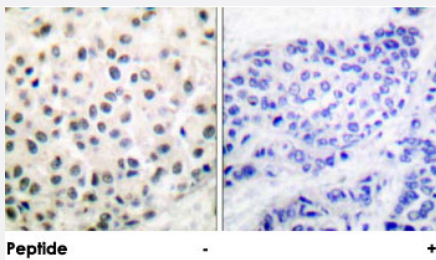
Catalog # PAB18472 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from MCF-7 cells, untreated or treated with Estradio, using ESR1 polyclonal antibody (Cat # PAB18472).
Peptide "+" means "peptide blocking".



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ESR1 polyclonal antibody (Cat # PAB18472).
Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of ESR1.
Immunogen	A synthetic peptide corresponding to residues surrounding S104/S106 of human ESR1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody is specific to ESR1.
Form	Liquid

Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:20000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from MCF-7 cells, untreated or treated with Estradio, using ESR1 polyclonal antibody (Cat # PAB18472).

Peptide "+" means "peptide blocking".

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ESR1 polyclonal antibody (Cat # PAB18472).

Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

Gene Info — ESR1

Entrez GeneID	2099
Protein Accession#	P03372
Gene Name	ESR1
Gene Alias	DKFZp686N23123, ER, ESR, ESRA, Era, NR3A1
Gene Description	estrogen receptor 1
Omim ID	133430 157300 608446

Gene Ontology

[Hyperlink](#)

Gene Summary

This gene encodes an estrogen receptor, a ligand-activated transcription factor composed of several domains important for hormone binding, DNA binding, and activation of transcription. The protein localizes to the nucleus where it may form a homodimer or a heterodimer with estrogen receptor 2. Estrogen and its receptors are essential for sexual development and reproductive function, but also play a role in other tissues such as bone. Estrogen receptors are also involved in pathological processes including breast cancer, endometrial cancer, and osteoporosis. Alternative splicing results in several transcript variants, which differ in their 5' UTRs and use different promoters. [provided by RefSeq]

Other Designations

OTTHUMP00000017718|OTTHUMP00000017719|estrogen receptor alpha

Publication Reference

- [p42, a novel cyclin-dependent kinase-activating kinase in mammalian cells.](#)

Liu Y, Wu C, Galaktionov K.

The Journal of Biological Chemistry 2003 Nov; 279(6):4507.

- [Inhibition of cdk2 activating phosphorylation by mevastatin.](#)

Ukomadu C, Dutta A.

The Journal of Biological Chemistry 2003 Feb; 278(7):4840.

Application: IP, WB-Tr, Human, PC-3 cells

- [Kinetic mechanism of activation of the Cdk2/cyclin A complex. Key role of the C-lobe of the Cdk.](#)

Morris MC, Gondeau C, Tainer JA, Divita G.

The Journal of Biological Chemistry 2002 Jun; 277(26):23847.

Disease

- [Abortion](#)
- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Alveolar Bone Loss](#)
- [Alzheimer disease](#)
- [Amphetamine-Related Disorders](#)

- [Anorexia Nervosa](#)
- [Antisocial Personality Disorder](#)
- [Aortic Aneurysm](#)
- [Arteriosclerosis](#)
- [Arthritis](#)
- [Asperger Syndrome](#)
- [Asthma](#)
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- [Atrial Fibrillation](#)
- [Atrophy](#)
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- [Bipolar Disorder](#)
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- [Bone Diseases](#)
- [Bone Neoplasms](#)
- [Bone Resorption](#)
- [Borderline Personality Disorder](#)
- [Brain Ischemia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
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- [Carotid Stenosis](#)
- [Cell Transformation](#)
- [Cellulitis](#)
- [Cerebral Hemorrhage](#)
- [Cerebral Infarction](#)
- [Cerebrovascular Accident](#)
- [Child Behavior Disorders](#)
- [Cholestasis](#)
- [Chorioamnionitis](#)
- [Chronic Disease](#)
- [Cleft Lip](#)
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- [Cognition Disorders](#)
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- [Colonic Neoplasms](#)
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- [Coronary Disease](#)
- [Coronary Restenosis](#)
- [Coronary Stenosis](#)

- [Coronary Thrombosis](#)
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- [Multiple Sclerosis](#)

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- [Myocardial Infarction](#)
- [Myocardial Ischemia](#)
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- [Neoplasm Metastasis](#)
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- [Oligospermia](#)
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- [Osteoporosis](#)
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- [Recurrence](#)
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- [Retinopathy of Prematurity](#)
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- [Scleroderma](#)
- [Scoliosis](#)
- [Seminoma](#)
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- [Social Perception](#)
- [Spinal Fractures](#)

- [Spinal Osteophytosis](#)
- [Stomach Neoplasms](#)
- [Stress](#)
- [Stroke](#)
- [Substance-Related Disorders](#)
- [Temporomandibular Joint Disorders](#)
- [Tension-Type Headache](#)
- [Testicular Neoplasms](#)
- [Thalassemia](#)
- [Thrombophilia](#)
- [Thrombosis](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Tooth Loss](#)
- [Urinary Bladder Neoplasms](#)
- [Urinary Calculi](#)
- [Uterine Diseases](#)
- [Uterine Neoplasms](#)
- [Varicose Ulcer](#)
- [Venous Thrombosis](#)
- [Vertigo](#)
- [Vision Disorders](#)
- [Vitiligo](#)
- [Weight Gain](#)
- [Werner syndrome](#)
- [Yang Deficiency](#)

- [Yin Deficiency](#)