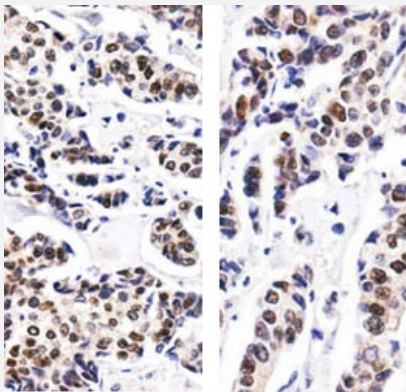


ESR1 monoclonal antibody, clone ER506

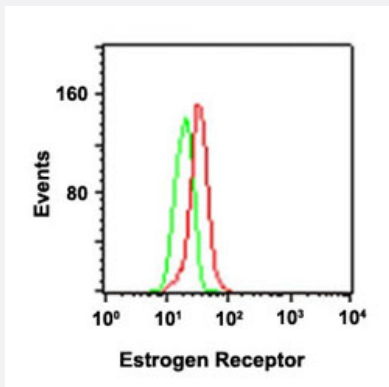
Catalog # MAB11318 Size 100 ug

Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) analysis of human breast invasive ductal carcinoma with ESR1 monoclonal antibody, clone ER506 (Cat # xxx) at 1:25 using peroxidase-conjugate and DAB chromogen.



Flow Cytometry

Flow cytometric analysis of MCF-7 cells using ESR1 monoclonal antibody, clone ER506 (Cat # MAB11317) at 1 ug/10⁶ cells. Paraformaldehyde and 0.1% Tween-PBS were used to fix and permeabilize the cells.

Specification

Product Description	Mouse monoclonal antibody raised against ESR1.
Immunogen	Recombinant human Estrogen Receptor alpha protein (amino acids 2-185).
Host	Mouse
Reactivity	Human
Form	Liquid

Purification	Protein G purification
Isotype	IgG1, kappa
Recommend Usage	Flow Cytometry (0.5-1.0ug/million cells) Western Blot (0.5-1.0ug/ml for 2 hours at Room Temp) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS, pH 7.4 (0.05% BSA and 0.05% sodium azide)
Storage Instruction	Store at 4°C. For long term storage 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

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- Flow Cytometry

Flow cytometric analysis of MCF-7 cells using ESR1 monoclonal antibody, clone ER506 (Cat # MAB11317) at 1 ug/10⁶ cells. Paraformaldehyde and 0.1% Tween-PBS were used to fix and permeabilize the cells.

Gene Info — ESR1

Entrez GeneID	2099
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

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](#)
- [Atherosclerosis](#)
- [Atrial Fibrillation](#)
- [Atrophy](#)
- [Autistic Disorder](#)
- [Azoospermia](#)

- [beta-Thalassemia](#)
- [Biliary Tract Neoplasms](#)
- [Bipolar Disorder](#)
- [Body Weight](#)
- [Bone Diseases](#)
- [Bone Neoplasms](#)
- [Bone Resorption](#)
- [Borderline Personality Disorder](#)
- [Brain Ischemia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchial Hyperreactivity](#)
- [Bulimia](#)
- [Cadmium Poisoning](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Carotid Stenosis](#)
- [Cell Transformation](#)
- [Cellulitis](#)
- [Cerebral Hemorrhage](#)
- [Cerebral Infarction](#)
- [Cerebrovascular Accident](#)
- [Child Behavior Disorders](#)

- [Cholestasis](#)
- [Chorioamnionitis](#)
- [Chronic Disease](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Coronary Restenosis](#)
- [Coronary Stenosis](#)
- [Coronary Thrombosis](#)
- [Cryptorchidism](#)
- [Cystic fibrosis](#)
- [Death](#)
- [Dementia](#)
- [Depression](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)

- [Diseases in Twins](#)
- [Down Syndrome](#)
- [Drug Hypersensitivity](#)
- [Ductus Arteriosus](#)
- [Dyskinesia](#)
- [Dyslipidemias](#)
- [Dysmenorrhea](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Esophageal Neoplasms](#)
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- [Femoral Neck Fractures](#)
- [Fetal Membranes](#)
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- [Glomerulonephritis](#)
- [Graft vs Host Disease](#)
- [Graves Disease](#)

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- [Hepatitis B](#)
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- [Hip Fractures](#)
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- [Hyperlipoproteinemia Type II](#)
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- [Lupus Nephritis](#)

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- [Migraine without Aura](#)
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- [Myocardial Ischemia](#)
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- [Obstetric Labor](#)
- [Oligospermia](#)

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- [Osteonecrosis](#)
- [Osteoporosis](#)
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- [Ovarian Failure](#)
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- [Pulmonary Disease](#)
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- [Recurrence](#)
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- [Retinopathy of Prematurity](#)
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- [Scleroderma](#)
- [Scoliosis](#)
- [Seminoma](#)
- [Sleep Disorders](#)
- [Social Perception](#)
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- [Spinal Osteophytosis](#)
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- [Stress](#)
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- [Substance-Related Disorders](#)
- [Temporomandibular Joint Disorders](#)
- [Tension-Type Headache](#)
- [Testicular Neoplasms](#)
- [Thalassemia](#)
- [Thrombophilia](#)
- [Thrombosis](#)
- [Thyroid Neoplasms](#)

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- [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](#)