OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for AM33384PU-N

Estrogen Receptor 1 (ESR1) Mouse Monoclonal Antibody [Clone ID: AER304]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AER304
Applications:	IF, IP, WB
Recommended Dilution:	**Immunoprecipitation.** **Immunocytochemistry.** **Western blot:** The antibody recognizes a doublet of approximately 67 kDa in non-reducing conditions.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Estrogen receptor protein purified from calf uterus
Specificity:	The antibody AER304 is directed against Estrogen Receptor alpha (ERα) and recognises amino acids residues 120-170, an epitope located in the B domain of ER-alpha.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Stabilizer: 50% Glycerol, 0.2% BSA Preservative: 0.02% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	estrogen receptor 1
Database Link:	Entrez Gene 2099 Human P03372

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Background: Estrogen receptor (ER) is a hormone binding molecule, which belongs to the nuclear hormone family of intracellular receptors. Estrogen receptors exist as alpha and beta forms encoded by separate genes ESR1 and ESR2. ERα and ERβ share a high degree of sequence homology and are activated by the hormone 17β-estradiol and related compounds, including phytoestrogens and xenoestrogens. Both ERα and ERβ function as transcription factors which mediate many of the biological effects of estradiol at the level of gene regulation. Both receptors and are involved in the normal development and function of numerous tissues. Studies also suggest that ER's may be involved in a range of pathological conditions including cancers, neurodegenerative diseases and cardiovascular disease.

Synonyms: ER alpha, Estradiol receptor, ESR1, ESR, NR3A1