

ESRRG Polyclonal Antibody

Catalog Number PA1-316

Product data sheet

Details		Species Reactivity	
Size	200 µg	Species reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG	Published species	Human
Class	Polyclonal	Tested Applications	
Type	Antibody	Western Blot (WB)	Dilution * 2 µg/mL
Immunogen	Synthetic peptide corresponding to residues D(401) Y E A G Q H M E D P R R(413) of human ERR3.	Published Applications	
Conjugate	Unconjugated	ChIP assay (ChIP)	See 2 publications below
Form	Liquid	Western Blot (WB)	See 1 publications below
Concentration	1 mg/mL	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

**Product specific information**

PA1-316 detects human and mouse ERR3 from transfected cells and shows no cross-reactivity to ERR1. PA1-316 has been successfully used in Western blot procedures. By Western blot, this antibody detects an ~54 kDa protein representing ERR1 from COS-7 transfected cells. This antibody is not suitable for 293T cells in Western blot analysis. PA1-316 immunogen is a synthetic peptide corresponding to residues D(401) Y E A G Q H M E D P R R(413) of human ERR3. This sequence is completely conserved between human, mouse and rat. This immunizing peptide (PEP-232) can be used for neutralization and control experiments.

**Background/Target Information**

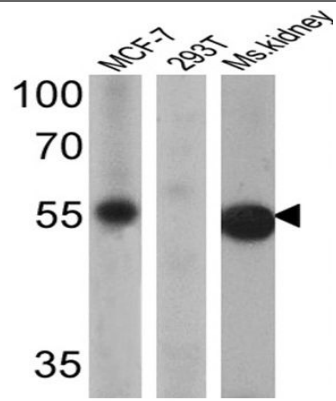
Estrogen-related receptor gamma (ERRG, ERR3, NR3B3) is an orphan member of the nuclear hormone receptor superfamily. ERRG acts as a transcription activator in the absence of a bound ligand. It binds specifically to an estrogen response element and activates reporter genes controlled by estrogen response elements. ERRG also induces the expression of PERM1 in the skeletal muscle.

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**ESRRG Antibody (PA1-316) in WB**

Western blot analysis of Estrogen-Related Receptor gamma was performed by loading 25 µg of MCF-7 (Lane 1), 293T (Lane 2), and Mouse kidney (Lane 3) cell lysates and a molecular weight protein ladder onto an SDS polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked with a blocking buffer at 4°C overnight. The membrane was probed with an Estrogen-Related Receptor gamma polyclonal antibody (Product # PA1-316) at a dilution of 1:500 (MCF-7 and 293T) and 1:1000 (Mouse kidney) overnight at 4°C, washed in TBST, and probed with an HRP-conjugated secondary antibody for 1 hr at room temperature in the dark. Results show a band at 54 kDa in MCF-7 and Mouse kidney cell lysates.

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PubMed References For ESRRG Polyclonal Antibody

2 ChIP assay References

Species / Dilution	Summary
Human / Not Cited	PA1-316 was used in ChIP assay to study the expression of tissue kallikrein and KV7 channels and the regulatory role of estrogen-related receptor gamma and oxygen tension during trophoblast differentiation
	Molecular endocrinology (Baltimore, Md.) ( 2013; 27: 940) <b>"Estrogen-related receptor (ERR) regulates oxygen-dependent expression of voltage-gated potassium (K+) channels and tissue kallikrein during human trophoblast differentiation."</b> Author(s):Luo Y,Kumar P,Mendelson CR PubMed Article URL: <a href="http://dx.doi.org/10.1210/me.2013-1038">http://dx.doi.org/10.1210/me.2013-1038</a>
Human / Not Cited	PA1-316 was used in chromatin immunoprecipitation to study the effect of estrogen receptors on ERR-stimulated monoamine oxidase B promoter activity.
	Molecular endocrinology (Baltimore, Md.) ( 2006; 20: 1547) <b>"Estrogen-related receptors-stimulated monoamine oxidase B promoter activity is down-regulated by estrogen receptors."</b> Author(s):Zhang Z,Chen K,Shih JC,Teng CT PubMed Article URL: <a href="http://dx.doi.org/10.1210/me.2005-0252">http://dx.doi.org/10.1210/me.2005-0252</a>

1 Western Blot References

Species / Dilution	Summary
Human / Not Cited	PA1-316 was used in western blot to characterize estrogen receptor-related receptor alpha and gamma in glioma and astrocytoma cells
	Molecular and cellular endocrinology ( 2010; 315: 314) <b>"Identification and characterization of estrogen receptor-related receptor alpha and gamma in human glioma and astrocytoma cells."</b> Author(s):Gandhari MK,Frazier CR,Hartenstein JS,Cloix JF,Bernier M,Wainer IW PubMed Article URL: <a href="http://dx.doi.org/10.1016/j.mce.2009.10.001">http://dx.doi.org/10.1016/j.mce.2009.10.001</a>

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