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Datasheet for ABIN7170763

**anti-ESRRB antibody (AA 432-502) (Biotin)**

## Overview

Quantity:	100 µg
Target:	ESRRB
Binding Specificity:	AA 432-502
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ESRRB antibody is conjugated to Biotin
Application:	ELISA

## Product Details

Immunogen:	Recombinant Human Steroid hormone receptor ERR2 protein (432-502AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

## Target Details

Target:	ESRRB
Alternative Name:	ESRRB ( <a href="#">ESRRB Products</a> )
Background:	Background: Isoform 3: Transcription factor that binds a canonical ESRRB recognition (ERRE) sequence 5'TCAAGGTCA-3' localized on promoter and enhancer of targets genes regulating

## Target Details

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their expression or their transcription activity (PubMed:17920186, PubMed:19755138). Plays a role, in a LIF-independent manner, in maintainance of self-renewal and pluripotency of embryonic and trophoblast stem cells through different signaling pathways including FGF signaling pathway and Wnt signaling pathways. Upon FGF signaling pathway activation, interacts with KDM1A by directly binding to enhancer site of ELF5 and EOMES and activating their transcription leading to self-renewal of trophoblast stem cells. Also regulates expression of multiple rod-specific genes and is required for survival of this cell type (By similarity). Plays a role as transcription factor activator of GATA6, NR0B1, POU5F1 and PERM1 (PubMed:23836911). Plays a role as transcription factor repressor of NFE2L2 transcriptional activity and ESR1 transcriptional activity (PubMed:17920186, PubMed:19755138). During mitosis remains bound to a subset of interphase target genes, including pluripotency regulators, through the canonical ESRRB recognition (ERRE) sequence, leading to their transcriptional activation in early G1 phase. Can coassemble on structured DNA elements with other transcription factors like SOX2, POU5F1, KDM1A and NCOA3 to trigger ESRRB-dependent gene activation. This mechanism, in the case of SOX2 corecruitment prevents the embryonic stem cells (ESCs) to epiblast stem cells (EpiSC) transition through positive regulation of NR0B1 that inhibits the EpiSC transcriptional program. Also plays a role inner ear development by controlling expression of ion channels and transporters and in early placentation (By similarity). Aliases: Err 2 antibody, ERR b antibody, ERR B2 antibody, ERR beta 2 antibody, ERR beta antibody, ERR beta-2 antibody, ERR-beta antibody, Err2 antibody, ERR2\_HUMAN antibody, ERRB 2 antibody, ERRb antibody, ERRB2 antibody, ERRbeta 2 antibody, ERRbeta antibody, ESR L2 antibody, ESRL 2 antibody, ESRL2 antibody, Esrrb antibody, Estrogen receptor like 2 antibody, Estrogen receptor related 2 antibody, Estrogen receptor-like 2 antibody, Estrogen-related receptor beta antibody, Estrrb antibody, Nr3b2 antibody, Nuclear receptor ERRB2 antibody, Nuclear receptor subfamily 3 group B member 2 antibody, Orphan nuclear receptor antibody, Steroid hormone receptor ERR 2 antibody, Steroid hormone receptor ERR2 antibody

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UniProt: [O95718](#)

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Pathways: [Nuclear Receptor Transcription Pathway](#), [Steroid Hormone Mediated Signaling Pathway](#), [Stem Cell Maintenance](#)

## Application Details

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Application Notes: Optimal working dilution should be determined by the investigator.

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Restrictions: For Research Use only

## Handling

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Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.