

Product datasheet for **TA397448S**

Rorc Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	WB: 1 ug/mL ELISA: 5 µg/ml
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Affinity purified Anti-receptor ROR gamma pS203 antibody was prepared from whole rabbit serum produced by repeated immunizations with an internal synthetic peptide phosphorylated at the serine 203 position of mouse receptor ROR gamma protein.
Specificity:	Anti-nuclear receptor ROR gamma pS203 is directed against mouse receptor ROR gamma phosphorylated at the serine 203 position. This product is an affinity purified antibody produced by immunoaffinity chromatography using phospho peptide coupled to agarose beads followed by solid phase adsorption(s) against non-phospho peptide to remove any unwanted reactivities. A BLAST analysis was used to suggest reactivity with this protein with pongo abelii based on 100% homology for the immunogen sequence.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.05 mg/mL - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is one (1) year from date of receipt.
Gene Name:	RAR-related orphan receptor gamma
Database Link:	Entrez Gene 19885 Mouse P51450



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Background:

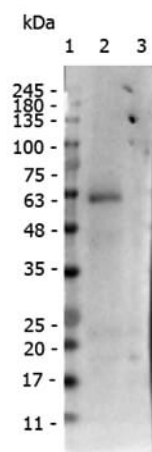
Anti-Nuclear receptor ROR gamma pS203 was designed, produced, and validated as part of the Joy Cappel Young Investigator Award (JCYIA). Nuclear receptor ROR gamma pS203 antibody detects mouse receptor ROR gamma phosphorylated at the serine 203 position. RAR-related orphan receptor gamma is a member of the nuclear receptor family of transcription factors. (ROR-gamma) is a key regulator of cellular differentiation, immunity, peripheral circadian rhythm as well as lipid, steroid, xenobiotics and glucose metabolism. ROR-gamma regulates the circadian expression of clock genes such as CRY1, ARNTL/BMAL1 and NR1D1 in peripheral tissues and in a tissue-selective manner. It is also involved in the regulation of the rhythmic expression of genes involved in glucose and lipid metabolism and is a negative regulator of adipocyte differentiation. It controls adipogenesis as well as adipocyte size and modulates insulin sensitivity in obesity. Isoform 2, ROR-gamma is essential for lymphoid organogenesis, in particular lymph nodes and Peyer's patches. ROR-gamma also plays an important regulatory role in thymopoiesis, and in inhibiting apoptosis of undifferentiated T cells. Anti-nuclear receptor ROR gamma pS203 is ideal for researcher's interested in autoimmune diseases such as psoriasis and rheumatoid arthritis, circadian rhythms, and immune system disorders.

Synonyms:

rabbit anti-receptor ROR gamma pS203 antibody, Nuclear receptor ROR-gamma, Nr1f3, RAR-related orphan receptor C, Nuclear receptor RZR-gamma, Thymus orphan receptor, Nuclear receptor subfamily 1 group F member 3, Retinoid-related orphan receptor-gamma, TOR, Thor, Rorg, Rorc

Note:

This affinity purified antibody has been tested for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band ~ 61 kDa in size corresponding to receptor ROR gamma by western blotting in the appropriate cell lysate or extract.

Product images:


Western Blot of Rabbit anti-receptor ROR gamma pS203 antibody. Lane 1: Opal PreStained Ladder (p/n MB-210-0500). Lane 2: Wild-type Mouse Thymus. Lane 3: KO Mouse Thymus. Load: 10 µg per lane. Primary antibody: Receptor ROR gamma pS203 antibody at 1 µg/mL for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody (p/n MB-210-0500) at 1:40,000 for 30 min at RT. Block: (p/n MB-070) for 30 minutes at RT. Predicted/Observed size: 63 kDa for ROR gamma.