

Anti-RORC phospho S203 Antibody

Catalog Number: A00444

About RORC

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.

Overview

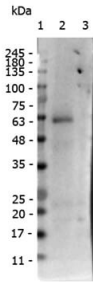
Product Name	Anti-RORC phospho S203 Antibody
Reactive Species	Mouse
Description	Boster Bio Anti-RORC phospho S203 Antibody (Catalog # A00444). Tested in ELISA, WB applications. This antibody reacts with Mouse.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. This product is stable at 4°C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20°C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	P51450

Technical Details

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.
Predicted Reactive Species	S. Cerevisiae
Cross Reactivity	No cross reactivity with other proteins.

Isotype	IgG
Form	Liquid (sterile filtered)
Concentration	1.05 mg/ml by UV absorbance at 280 nm
Purification	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.
Suggested Dilutions	ELISA: 5 µg/ml WB: 1 ug/mL 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.

Anti-RORC phospho S203 Antibody (A00444) Images



Western Blot of Rabbit anti-receptor ROR gamma pS203 antibody. Lane 1: Opal PreStained Ladder . 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 ug/mL for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:40,000 for 30 min at RT. Block: for 30 minutes at RT. Predicted/Observed size: 63 kDa for ROR gamma.

1 Publications Citing This Product

1. PubMed ID: 10.1152/ajplung.00409.2016, Impaired TNF/TNFR2 signaling enhances Th2 and Th17 polarization and aggravates allergic airway inflammation

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