



# ROR $\alpha$ Monoclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Catalog No</b>                  | YP-mAb-03333                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Applications</b>                | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Gene Name</b>                   | RORA                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from human RORA. AA range:6-55                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Specificity</b>                 | ROR $\alpha$ Monoclonal Antibody detects endogenous levels of ROR $\alpha$ protein.                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>                      | Monoclonal, mouse,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purification</b>                | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                             |
| <b>Dilution</b>                    | Western Blot: 1/500 - 1/2000.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>                    | hhl2a;NR1F1;Nuclear receptor ROR-alpha;Nuclear receptor RZR-alpha;Nuclear receptor subfamily 1 group F member 1;RAR-related orphan receptor A;Retinoid-related orphan receptor-alpha;Rora;RORA_HUMAN;RZR-ALPHA;RZRA;ROR $\alpha$                                                                                                                                                                                                                                                 |
| <b>Observed Band</b>               | 60kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Calculated Molecular Weight</b> | 60kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Cell Pathway</b>                | Nucleus .                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Tissue Specificity</b>          | Widely expressed in a number of tissues. Expressed in both regulatory T-cells (Treg) and effector T-cells (Teff) (PubMed:18354202, PubMed:7916608). Isoform 4: Highly expressed in the central nervous system, including in the cerebellum (PubMed:29656859).                                                                                                                                                                                                                    |
| <b>Function</b>                    | function:Orphan nuclear receptor. Binds DNA as a monomer to hormone response elements (HRE) containing a single core motif half-site preceded by a short A-T-rich sequence. This isomer binds to the consensus sequence 5'-[AT][TA]A[AT][CGT]TAGGTCA-3'. ,similarity:Belongs to the nuclear hormone receptor family. ,similarity:Belongs to the nuclear hormone receptor family. NR1 subfamily. ,similarity:Contains 1 nuclear receptor DNA-binding domain. , subunit:Monomer. , |



## Background

The protein encoded by this gene is a member of the NR1 subfamily of nuclear hormone receptors. It can bind as a monomer or as a homodimer to hormone response elements upstream of several genes to enhance the expression of those genes. The encoded protein has been shown to interact with NM23-2, a nucleoside diphosphate kinase involved in organogenesis and differentiation, as well as with NM23-1, the product of a tumor metastasis suppressor candidate gene. Also, it has been shown to aid in the transcriptional regulation of some genes involved in circadian rhythm. Four transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Feb 2014],

## matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images

