

Rabbit RORA / ROR Alpha Polyclonal Antibody | anti-RORA antibody

Rabbit Polyclonal to Human RORA / ROR Alpha

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA51327	Rabbit	Reactivity: Human, Monkey, Mouse, Rat, Bat, Bovine, Dog, Horse, Pig, Rabbit (tested or 100% immunogen sequence identity) Predicted: Chicken, Xenopus, Zebrafish (at least 90% immunogen sequence identity)	Immunohistochemistry

PRODUCT SYNONYMS

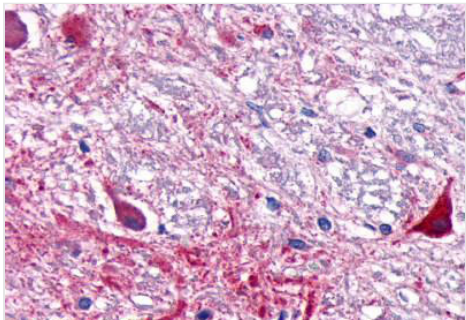
RORA / ROR Alpha; Polyclonal Antibody; Rabbit Polyclonal to Human RORA / ROR Alpha; Anti-RORA / ROR Alpha Antibody (Ligand-binding Domain) IHC-plus; RORA; Nuclear receptor ROR-alpha; Nuclear receptor RZR-alpha; Roralpha; Transcription factor RZR-alpha; RAR-related orphan receptor A; ROR-alpha; ROR3; RZRA; NR1F1; ROR Alpha; RZR-ALPHA; Human RORA; anti-RORA antibody

PRODUCT SPECIFICATIONS

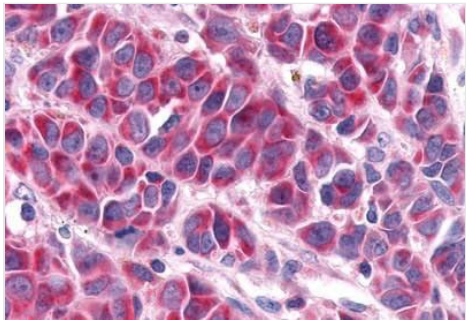
Host	Rabbit
Reactivity	Reactivity: Human, Monkey, Mouse, Rat, Bat, Bovine, Dog, Horse, Pig, Rabbit (tested or 100% immunogen sequence identity) Predicted: Chicken, Xenopus, Zebrafish (at least 90% immunogen sequence identity)
Clonality	Polyclonal
Specificity	Human ROR Alpha. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Purity/Purification	Immunoaffinity Purified
Form/Format	PBS, 0.1% sodium azide.
Concentration	1 mg/ml (varies by lot)
Sequence Length	548
Applicable Applications for anti-RORA antibody	IHC (Immunohistochemistry)
Immunogen Species	Human
Immunogen Description	Synthetic 20 amino acid peptide from ligand-binding domain of human ROR Alpha.
Antigen Type	Synthetic peptide
Immunogen	RORA / ROR Alpha antibody was raised against synthetic 20 amino acid peptide from ligand-binding domain of human ROR Alpha. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Marmoset, Mouse, Rat, Elephant, Panda, Bovine, Dog, Bat, Horse, Rabbit, Pig, Opossum, Platypus (100%); Turkey, Chicken, Xenopus (95%); Stickleback, Pufferfish, Zebrafish (90%).
Antigen Modification	Ligand-binding Domain
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze thaw cycles.

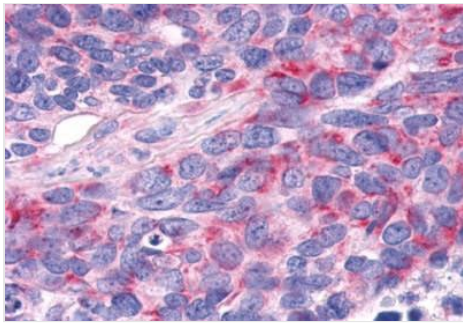
IMAGES



IHC (Immunohistochemisry)
Anti-ROR Alpha antibody IHC of human brain, spinal trigeminal nucleus.
Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



IHC (Immunohiostchemistry)
Anti-RORA / ROR Alpha antibody IHC of human Skin, Melanoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



IHC (Immunohistochemistry)
 Anti-RORA / ROR Alpha antibody IHC of human Lung, Small Cell Carcinoma.
 Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

ADDITIONAL INFORMATION

Related Product Information for anti-RORA antibody	Retinoid-related orphan receptor alpha (ROR alpha), a NR1 Thyroid Hormone-Like Receptor, has been shown to affect the development of the central nervous system. Deletion of ROR alpha in mice causes severe impairment in the differentiation of cerebellar Purkinje neurons and results in the 'staggerer' phenotype. ROR alpha has been suggested as a potential target in the treatment of chronic inflammatory diseases, including atherosclerosis and rheumatoid arthritis.
Product Categories/Family for anti-RORA antibody	Family: NHR; Subfamily: NR1 Thyroid hormone-like

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506577
NCBI GeneID	6095
NCBI Accession #	NP_002934.1
NCBI GenBank Nucleotide #	NM_002943.3
UniProt Accession #	P35398; P35397; P35399; P45445; Q495X4; Q96H83
Molecular Weight	53,556 Da
NCBI Official Full Name	nuclear receptor ROR-alpha isoform c
NCBI Official Synonym Full Names	RAR-related orphan receptor A
NCBI Official Symbol	RORA
NCBI Official Synonym Symbols	ROR1; ROR2; ROR3; RZRA; NR1F1; RZR-ALPHA
NCBI Protein Information	nuclear receptor ROR-alpha; nuclear receptor RZR-alpha; transcription factor RZR-alpha; retinoid-related orphan receptor alpha; nuclear receptor subfamily 1 group F member 1; thyroid hormone nuclear receptor alpha variant 4; retinoic acid receptor-related orphan receptor alpha
UniProt Protein Name	Nuclear receptor ROR-alpha
UniProt Gene Name	RORA
UniProt Synonym Gene Names	NR1F1; RZRA
UniProt Entry Name	RORA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.