

Immunotag™ Rho A Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT4077
Product Description	Immunotag™ Rho A Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	RHO A
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	IF, WB, IHC-p, ELISA
Recommended Dilution	IF: 1:50-200 Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human, Mouse, Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from Rho A, at AA range: 130-210
Specificity	Rho A Polyclonal Antibody detects endogenous levels of Rho A protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	RHOA
Accession No.	P61586 Q9QUI0 P61589
Alternate Names	RHOA; ARH12; ARHA; RHO12; Transforming protein RhoA; Rho cDNA clone 12; h12

Antibody Specification

Description	ras homolog family member A(RHOA) Homo sapiens This gene encodes a member of the Rho family of small GTPases, which cycle between inactive GDP-bound and active GTP-bound states and function as molecular switches in signal transduction cascades. Rho proteins promote reorganization of the actin cytoskeleton and regulate cell shape, attachment, and motility. Overexpression of this gene is associated with tumor cell proliferation and metastasis. Multiple alternatively spliced variants have been identified. [provided by RefSeq, Sep 2015],
Cell Pathway/ Category	Chemokine,Vascular smooth muscle contraction,WNT,WNT-T CELLTGF-beta,Axon guidance,Focal adhesion,Adherens_Junction,Adherens_Junction,T_Cell_Receptor,Leukocyte transendothelial migration,Neurotrophin,Regulates Actin and Cytoskeleton,Pathogenic Escherichia coli infection,Pathways in cancer,
Protein Expression	Adipose tissue,Brain,Colon,Mammary cancer,Oesophageal carcinoma,Placenta,Re
Subcellular Localization	intracellular,endosome,endoplasmic reticulum membrane,cytosol,cytoskeleton,plasma membrane,focal adhesion,cell cortex,lamellipodium,cell junction,midbody,extrinsic component of cytoplasmic side of plasma membrane,
Protein Function	cofactor:Magnesium.,domain:The basic-rich region is essential for yopT recognition and cleavage.,function:Regulates a signal transduction pathway linking plasma membrane receptors to the assembly of focal adhesions and actin stress fibers. Serves as a target for the yopT cysteine peptidase from Yersinia pestis, vector of the plague, and Yersinia pseudotuberculosis, which causes gastrointestinal disorders. May be an activator of PLCE1. Activated by ARHGEF2, which promotes the exchange of GDP for GTP.,PTM:Cleaved by yopT protease when the cell is infected by some Yersinia pathogens. This removes the lipid attachment, and leads to its displacement from plasma membrane and to subsequent cytoskeleton cleavage.,PTM:Substrate for botulinum ADP-ribosyltransferase.,similarity:Belongs to the small GTPase superfamily. Rho family.,subunit:Interacts with RGNEF (By similarity). Binds PRKCL1, ROCK1 and ROCK2. Interacts with ARHGEF2, ARHGEF3, NET1 and RTKN. Interacts with PLCE1 and AKAP13. Interacts with human respiratory syncytial virus (HRSV) protein F; this interaction facilitates virus-induced syncytium formation.,
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