

Immunotag™ RPF2 Polyclonal Antibody

Antibody Specification	
Catalog No.	ITN1147
Product Description	Immunotag™ RPF2 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	RPF2
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Reactive Species	Human,Rat,Mouse
Host Species	Rabbit
Immunogen	Synthesized peptide derived from human protein, at AA range: 190-270
Specificity	RPF2 Polyclonal Antibody detects endogenous levels of protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Gene Name	RAPGEF2 KIAA0313 NRAPGEP PDZGEF1
Accession No.	Q9Y4G8 Q8CHG7 F1M386

Antibody Specification

Description	Rap guanine nucleotide exchange factor 2(RAPGEF2) Homo sapiens Members of the RAS (see HRAS; MIM 190020) subfamily of GTPases function in signal transduction as GTP/GDP-regulated switches that cycle between inactive GDP- and active GTP-bound states. Guanine nucleotide exchange factors (GEFs), such as RAPGEF2, serve as RAS activators by promoting acquisition of GTP to maintain the active GTP-bound state and are the key link between cell surface receptors and RAS activation (Rebhun et al., 2000 [PubMed 10934204]).[supplied by OMIM, Mar 2008],
Cell Pathway/ Category	MAPK_ERK_Growth,MAPK_G_Protein,
Protein Expression	Brain,Platelet,Uterus,
Subcellular Localization	intracellular,cytoplasm,late endosome,cytosol,plasma membrane,integral component of plasma membrane,cell-cell junction,bicellular tight junction,membrane,apical plasma membrane,endocytic vesicle,neuron pr
Protein Function	function:Guanine nucleotide exchange factor (GEF) for Rap1A, Rap1B and Rap2B GTPases. Does not interact with cAMP or cGMP.,PTM:Phosphorylated upon DNA damage, probably by ATM or ATR.,similarity:Contains 1 cyclic nucleotide-binding domain.,similarity:Contains 1 N-terminal Ras-GEF domain.,similarity:Contains 1 PDZ (DHR) domain.,similarity:Contains 1 Ras-associating domain.,similarity:Contains 1 Ras-GEF domain.,subcellular location:Associated with the synaptic plasma membrane.,subunit:Interacts with MAGI2.,tissue specificity:Highest expression levels in brain. Lower expression levels in heart, kidney, lung, and placenta.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.