

Ras-GRF1 (Phospho-Ser916) Conjugated Antibody

Catalog No: #C11678



Package Size: #C11678-AF350 100ul #C11678-AF405 100ul #C11678-AF488 100ul
 #C11678-AF555 100ul #C11678-AF594 100ul #C11678-AF647 100ul
 #C11678-AF680 100ul #C11678-AF750 100ul #C11678-Biotin 100ul

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Description

Product Name	Ras-GRF1 (Phospho-Ser916) Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous levels of Ras-GRF1 only when phosphorylated at serine 916.
Immunogen Description	Peptide sequence around phosphorylation site of Serine 916(R-M-S(p)-L-A) derived from Mouse Ras-GRF1.
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	CDC25;GNRP; GRF1;RASGRF1
Accession No.	Swiss-Prot#:P27671NCBI Gene ID:19417NCBI mRNA#:NM_002891.4. NCBI Protein#:NP_002882.3.
Uniprot	P27671
GeneID	19417;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	145
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Product Description

Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.

Background

Ras activity is regulated by GAP (GTPase activating proteins) and GEFs (guanine nucleotide exchange factors). Ras-GRF1 (also known as CDC25Mm) is neuronal RasGEF and is regulated by heterotrimeric G proteins and calcium influx . Binding to calmodulin and phosphorylation stimulate Ras-GRF1 activity. Multiple PKA phosphorylation sites on Ras-GRF have been identified. Phosphorylation on the two major sites, Ser54 and Ser822, inhibits Ras-GRF activity. Carbachol (a muscarinic agonist)-induced phosphorylation on Ser916 is essential but not sufficient for maximal Ras-GRF activity.

Note: This product is for in vitro research use only