G-Biosciences Image not found or type unknown

Immunotag™ TAOK2 Antibody

Antibody Specification

Catalog No.	ITA3623
Product Description	Immunotag™ TAOK2 Antibody
Size	100 µg, 200 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	TAOK2
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,ELISA
Recommended Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide
Specificity	TAOK2 antibody detects endogenous levels of total TAOK2
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Gene Name	TAOK2
Accession No.	Q9UL54

Antibody Specification

Alternate Names	1110033K02Rik; B230344N16; hKFC C; hKFC-C; KIAA0881; Kinase from chicken homolog C; MAP3K17; mKIAA0881; Prostate derived STE20 like kinase 1; Prostate derived STE20 like kinase PSK; Prostate derived sterile 20 like kinase 1; Prostate-derived STE20-like kinase 1; PSK 1; PSK; PSK-1; PSK1; PSK1 beta; Serine/threonine protein kinase TAO2; Serine/threonine-protein kinase TAO2; TAO 1; TAO 2; TAO kinase 2; TAO1; TAO2; TAOK 2; Taok2; TAOK2_HUMAN; Thousand and one amino acid protein 2; Thousand and one amino acid protein kinase; UNQ2971/PRO7431;
Description	Serine/threonine-protein kinase involved in different processes such as membrane blebbing and apoptotic bodies formation DNA damage response and MAPK14/p38 MAPK stress-activated MAPK cascade. Phosphorylates itself, MBP, activated MAPK8, MAP2K3, MAP2K6 and tubulins. Activates the MAPK14/p38 MAPK signaling pathway through the specific activation and phosphorylation of the upstream MAP2K3 and MAP2K6 kinases. In response to DNA damage, involved in the G2/M transition DNA damage checkpoint by activating the p38/MAPK14 stress-activated MAPK cascade, probably by mediating phosphorylation of upstream MAP2K3 and MAP2K6 kinases. Isoform 1, but not isoform 2, plays a role in apoptotic morphological changes, including cell contraction, membrane blebbing and apoptotic bodies formation. This function, which requires the activation of MAPK8/JNK and nuclear localization of C-terminally truncated isoform 1, may be linked to the mitochondrial CASP9-associated death pathway. Isoform 1 binds to microtubules and affects their organization and stability independently of its kinase activity. Prevents MAP3K7-mediated activation of CHUK, and thus NF-kappa-B activation, but not that of MAPK8/JNK. May play a role in the osmotic stress-MAPK8 pathway. Isoform 2, but not isoform 1, is required for PCDH8 endocytosis. Following homophilic interactions between PCDH8 extracellular domains, isoform 2 phosphorylates and activates MAPK14/p38 MAPK which in turn phosphorylates isoform 2. This process leads to PCDH8 endocytosis and CDH2 cointernalization. Both isoforms are involved in MAPK14 phosphorylation.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	120 kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.