GPCR G2A Antibody FITC Conjugated

Catalog No: #C02632F

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Description

Product Name	GPCR G2A Antibody FITC Conjugated
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Purified by Protein A.
Applications	ICC IF
Species Reactivity	Hu
Immunogen Description	KLH conjugated synthetic peptide derived from human G Protein Coupled Receptor G2A
Conjugates	FITC
Target Name	GPCR G2A
Other Names	G Protein Coupled Receptor G2A; G Protein Coupled Receptor G2A; G2 accumulation protein; G2A; GP132_HUMAN; GPR132; Probable G-protein coupled receptor 132.
Accession No.	NCBI Gene ID29933
Uniprot	Q9UNW8
GeneID	29933;
Excitation Emission	494nm 518nm
Cell Localization	Extracellular
Concentration	1mg ml
Formulation	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Application Details

ICC=1:50-200 IF=1:50-200

Background

G2A (for G2 accumulation) is a seven transmembrane G protein-coupled receptor that is upregulated in response to DNA damage and stress (1). G2A is predominantly expressed in hematopoietic tissues and in hematopoietic stem cells, and it is more highly detected in pro-B cells, while lower expression is observed in immature B cells and pre-B cells (1,2). G2A is expressed throughout T cell maturation, and it is further increased in response to T-cell activation (3). Ectopic expression of a G2A fusion protein in NIH 3T3 fibroblasts induces a cell cycle arrest that is consistent with a block at the G2 M transition (1,4). G2A is also able to attenuate the proliferative effects of Bcr-Abl, a chimeric tyrosine kinase oncogene, suggesting that G2A possesses anti-oncogenic properties (5). The amino acid sequence of G2A contains a destruction box motif that is consistently observed in cyclins, where it is required for ubiquitination and proteolytic degradation (6).

Note: This product is for in vitro research use only