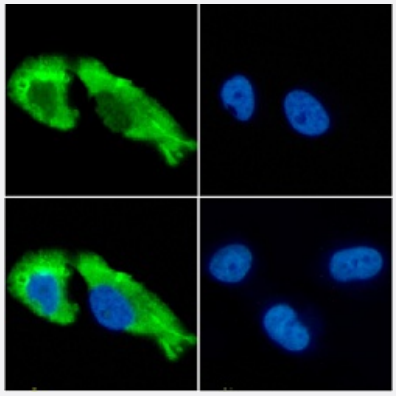
RecomAb™

GABRA1 recombinant monoclonal antibody, clone 1F4

Catalog # RAB03478 Size 200 ug

Applications



Immunofluorescence

Immunofluorescent staining of U251 cells with GABRA1 recombinant monoclonal antibody, clone 1F4 (Cat # RAB03478).
Immunofluorescence analysis of paraformaldehyde U251 cells fixed on Shi-fix™ coverslips stained with the chimeric r version of RAB03478 at 10 ug/mL for 1h followed by Alexa Fluor® 488 secondary antibody (2 ug/mL), showing membrane staining. The nuclear stain is DAPI (blue). The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor® 488 secondary antibody.
(A) RAB03478
(B) DAPI
(C) Merged channels
(D) Isotype control

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human GABRA1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against alpha1beta2gamma2 GABA-A receptor.
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Isotype	IgG

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Recommend Usage	Crystallography Immunofluorescence The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS with 0.02% Proclin 300
Storage Instruction	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Immunofluorescence

  Immunofluorescent staining of U251 cells with GABRA1 recombinant monoclonal antibody, clone 1F4 (Cat # RAB03478). Immunofluorescence analysis of paraformaldehyde U251 cells fixed on Shi-fix™ coverslips stained with the chimeric r version of RAB03478 at 10 ug/mL for 1h followed by Alexa Fluor® 488 secondary antibody (2 ug/mL), showing membrane staining. The nuclear stain is DAPI (blue). The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor® 488 secondary antibody.
  (A) RAB03478
  (B) DAPI
  (C) Merged channels
  (D) Isotype control

- Crystallography

Gene Info — GABRA1

Entrez GeneID	2554
Gene Name	GABRA1
Gene Alias	ECA4, EJM
Gene Description	gamma-aminobutyric acid (GABA) A receptor, alpha 1
Omim ID	137160 606904
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a gamma-aminobutyric acid (GABA) receptor. GABA is the major inhibitory n eurotransmitter in the mammalian brain where it acts at GABA-A receptors, which are ligand-gate d chloride channels. Chloride conductance of these channels can be modulated by agents such a s benzodiazepines that bind to the GABA-A receptor. GABA-A receptors are pentameric, consist ing of proteins from several subunit classes: alpha, beta, gamma, delta and rho. Mutations in this gene cause juvenile myoclonic epilepsy and childhood absence epilepsy type 4. Multiple transcrip t variants encoding the same protein have been identified for this gene. [provided by RefSeq

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Other Designations	OTTHUMP00000160870

Pathway

- Neuroactive ligand-receptor interaction

Disease

- Alcoholic Intoxication
- Alcoholism
- Amphetamine-Related Disorders
- Anorexia Nervosa
- Autistic Disorder
- Bipolar Disorder
- Bulimia
- Cardiovascular Diseases
- Diabetes Mellitus
- Dystonic Disorders
- Edema
- Epilepsy
- Essential tremor
- Genetic Predisposition to Disease
- Heroin Dependence
- Mental Disorders
- Mood Disorders
- Myoclonic Epilepsy
- Psychoses
- Puberty

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- Schizophrenia

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