

Product datasheet for **TA386323**

GABA A Receptor alpha 1 (GABRA1) Mouse Monoclonal Antibody [Clone ID: 1F4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1F4
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b, kappa
Clonality:	Monoclonal
Immunogen:	This antibody was raised against $\alpha 1\beta 2\gamma 2$ GABA-A receptor.
Specificity:	<p>This antibody recognises $\alpha 1\beta 2\gamma 2$ GABA-A receptor which is found in up to 50% of the synapses in the brain. Its ligand, GABA is a major inhibitory transmitter in the nervous system, binds to this receptor and opens a channel permeable to chloride. Disfunctions of GABAR are found in anxiety, neurodevelopmental disorders and epilepsy.</p> <p>FSEC: High affinity and specificity of the 1F4 antibody to $\alpha 1\beta 2\gamma 2$ GABA-A receptor was demonstrated using fluorescence-detection size exclusion chromatography with GFP-tagged receptor (shift in elution volume) (Zhu et al., 2018). Crystallography: Furthermore, this antibody was utilised in production and purification of the $\alpha 1\beta 2\gamma 2$ GABA-A receptor (Zhu et al., 2018). Finally, Fab fragments derived from the antibody were used to facilitate crystallisation and improve stabilisation of the $\alpha 1\beta 2\gamma 2$ GABA-A receptor (Zhu et al., 2018).</p>
Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
Stability:	3 years from dispatch.
Gene Name:	gamma-aminobutyric acid type A receptor alpha1 subunit
Database Link:	Entrez Gene 2554 Human P14867
Synonyms:	ECA4; EJM; EJM5



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