DATA SHEET
20221027

Anti-GABA$_A$ receptor-α1

Product Information:

1)	**Catalog #:**	MSFR101520
	Item Name:	GABAA receptor-a1 pAb (Rb) 20ug
	Size :	20μg (affinity-purified with antigen polypeptide)
	Species :	Rabbit
	Product Code :	GABAARa1-Rb-Af660
	RRID :	AB_2571571
2)	**Catalog #:**	MSFR101530
	Item Name:	GABAA receptor-a1 pAb (Rb) 50ug
	Size :	50μg (affinity-purified with antigen polypeptide)
	Species :	Rabbit
	Product Code :	GABAARa1-Rb-Af660
	RRID :	AB_2571571
3)	**Catalog #:**	MSFR101540
	Item Name:	GABAA receptor-a1 pAb (GP) 20ug
	Size :	20μg (affinity-purified with antigen polypeptide)
	Species :	Guinea pig
	Product Code :	GABAARa1-GP-Af440
	RRID :	AB_2571572
4)	**Catalog #:**	MSFR101550
	Item Name:	GABAA receptor-a1 pAb (GP) 50ug
	Size :	50μg (affinity-purified with antigen polypeptide)
	Species :	Guinea pig
	Product Code :	GABAARa1-GP-Af440
	RRID :	AB_2571572

Formulation : Liquid ; 200 μg/ml in PBS with 0.05% NaN_3.

Storage : Store at cool temp. (2-10˚C)

The antibody can be stored at 2-10˚C. The antibody can be also aliquoted and stored at -80 ˚C for long-term storage. Avoid repeated freeze-thawing. Non-hazardous. No MSDS required.

Species : rabbit / guinea pig, polyclonal

Antigen : mouse $GABA_AR\alpha1$, 369-386aa (NM_010250)

Specificity : mouse (others not tested)

Immunoblot with the antibodies detects a band at 43 kDa in mouse brain homogenates and multiple bands in HEK cell lysates transfected with $GABA_AR\alpha1$, but not $GABA_AR\alpha2$. Immunohistochemistry labels synaptic membrane at GABAergic synapses and also labels extra synaptic neuronal surface.

ご注意：本商品には 0.1 % 未満のアジ化ナトリウムが入っています。 誤って目や口に入ったり、皮膚に付着した場合は大量の水で洗い流してください。

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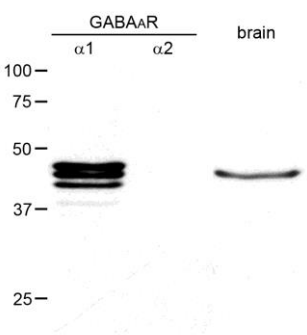

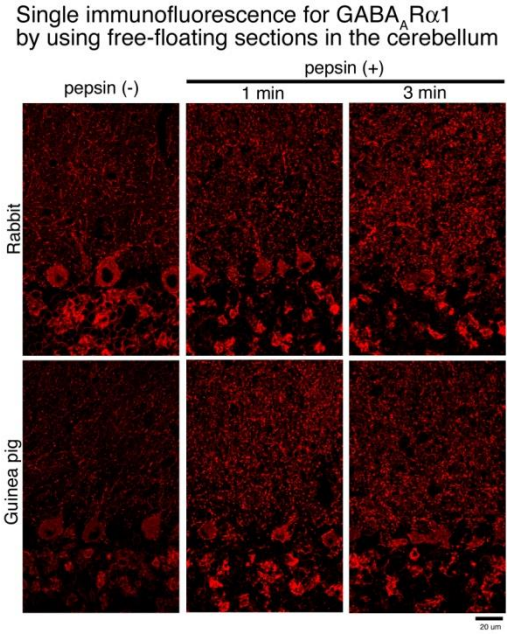

Applications：In general, affinity-purified antibody is used at around 1 microgram/ml for immunoblot and immunohistochemistry. The most appropriate concentration should be determined by users, because it depends on contents in given cells, tissues and organs.

Research Use：For research use only, not for use in diagnostic procedures.

Remarks：Detection of synaptic $GABA_A R\alpha 1$ is enhanced by mild section pretreatment with pepsin, due to better antibody penetration into postsynaptic membrane.

Reference：1) Ichikawa R, Yamasaki M, Miyazaki T, Konno K, Hashimoto K, Tatsumi H, Inoue Y, Kano M, Watanabe M: Developmental switching of perisomatic innervation from climbing fibers to basket cell fibers in cerebellar Purkinje cells. **J. Neurosci.** 31:16916-16927, 2011.

2) Iwakura A, Uchigashima M, Miyazaki T, Yamasaki M, Watanabe M: Lack of molecular-anatomical evidence for GABAergic influence upon axon initial segment of cerebellar Purkinje cells by the pinceau formation. **J. Neurosci**. 32:9438-9448.

3) Kudo T, Uchigashima M, Miyazaki T, Konno K, Yamasaki Y, Yanagawa Y, Minami M, Watanabe M: Three types of neurochemical projection from the bed nucleus of the stria terminalis to the ventral tegmental area in adult mice. **J. Neurosci**., in press

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