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Datasheet for ABIN953904 anti-Mu Opioid Receptor 1 antibody (Middle Region)

3 Images



Overview

Quantity:	0.4 mL
Target:	Mu Opioid Receptor 1 (OPRM1)
Binding Specificity:	AA 167-196, Middle Region
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Mu Opioid Receptor 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow
	Cytometry (FACS), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 167~196 amino acids from the Center region of human OPRM1
Isotype:	Ig Fraction
Specificity:	This antibody recognizes Human and Mouse OPRM1 (Center).
Purification:	Protein A column, followed by peptide affinity purification

Target Details

Target:	Mu Opioid Receptor 1 (OPRM1)
Alternative Name:	OPRM1 (OPRM1 Products)

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Target Details

Background:	OPRM1 is the mu opioid receptor, which is the primary site of action for the most commonly
	used opioids, including morphine, heroin, fentanyl, and methadone. It is also the primary
	receptor for endogenous opioid peptides beta-endorphin (see POMC, MIM 176830) and the
	enkephalins (see PENK, MIM 131330). The OPRM1 receptor is a membrane of the G protein-
	coupled receptor family (Bond et al., 1998 [PubMed 9689128]). There are at least 3 types of
	opioid receptors, mu, kappa (OPRK1, MIM 165196), and delta, each with a distinct
	pharmacologic profile.Synonyms: MOR1, Mu-type opioid receptor
Molecular Weight:	44779 Da
Gene ID:	4988
NCBI Accession:	NP_000905
Pathways:	cAMP Metabolic Process, Synaptic Membrane

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS containing 0.09 % (W/V) Sodium Azide as preservative
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

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Flow Cytometry

Image 1. Flow cytometry analysis of K562 cells using OPRM1 Antibody (Center) Cat.-No AP53000PU-N (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue reacted with OPRM1 Antibody (Center) followed which was peroxidase conjugated to the secondary antibody and followed by DAB staining. This data demonstrates the use of OPRM1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

Western Blotting

Image 3. Western blot analysis of OPRM1 Antibody (Center) in mouse heart tissue lysates (35ug/lane). OPRM1 (arrow) was detected using the purified Pab.

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