

OPRM1 Polyclonal Antibody

Catalog NumberPA5-26138

Product data sheet

| Details | | Species Reactivity | |
|--------------------|---|--|--------------------------|
| Size | 400 µL | Species reactivity | Human, Mouse |
| Host/Isotope | Rabbit / Ig | Published species | Human, Not Applicable |
| Class | Polyclonal | Tested Applications | |
| Type | Antibody | Flow Cytometry (Flow) | Dilution *1:10-1:50 |
| Immunogen | KLH conjugated synthetic peptide between 161-187 amino acids from the central region of human OPRM1 | Immunohistochemistry (Paraffin) (IHC (P)) | 1:10-1:50 |
| | | Western Blot (WB) | 1:1,000 |
| Conjugate | Unconjugated | Published Applications | |
| Form | Liquid | Western Blot (WB) | See 1 publications below |
| Concentration | 0.4 mg/mL | Immunoprecipitation (IP) | See 1 publications below |
| Purification | Protein A, Antigen affinity chromatography | * Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls. | |
| Storage buffer | PBS | | |
| Contains | 0.09% sodium azide | | |
| Storage Conditions | -20° C, Avoid Freeze/Thaw Cycles | | |

Product specific information

This antibody is predicted to react with porcine, non-human primate and rat based on sequence homology.

Background/Target Information

The OPRM1 gene encodes 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 and the enkephalins. The OPRM1 receptor is a membrane of the G protein-coupled receptor family. There are at least 3 types of opioid receptors, mu, kappa, and delta, each with a distinct pharmacologic profile.

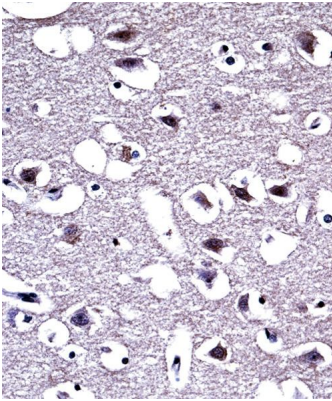
For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

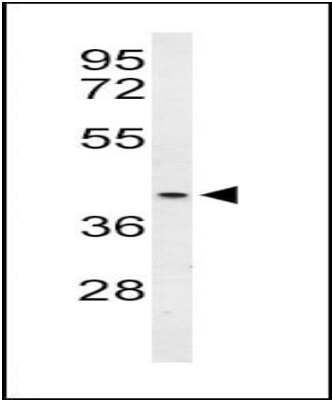
NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.

Product Images For OPRM1 Polyclonal Antibody



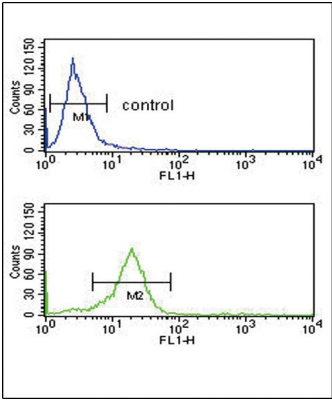
OPRM1 Antibody (PA5-26138) in IHC (P)

Immunohistochemistry analysis in formalin-fixed, paraffin-embedded human brain tissue using an OPRM1 polyclonal antibody (Product # PA5-26138), followed by HRP-conjugated secondary antibody and DAB staining.



OPRM1 Antibody (PA5-26138) in WB

Western blot analysis using an OPRM1 polyclonal antibody (Product # PA5-26138) in mouse heart tissue lysates (35 µg per lane).



OPRM1 Antibody (PA5-26138) in Flow

Flow cytometry analysis of K562 cells using an OPRM1 polyclonal antibody (Product # PA5-26138) (bottom) compared to a negative control cell (top) at a dilution of 1:10-50, followed by a FITC-conjugated goat anti-rabbit antibody

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.

PubMed References For OPRM1 Polyclonal Antibody

1 Western Blot References

| Species / Dilution | Summary |
|--------------------|--|
| | PA5-26138 was used in Western Blot to investigate if D,L-methadone in combination with cytotoxic drugs (doxorubicin /carboplatin/vincristine) influences the cell viability, migration, apoptosis induction, and signaling pathway in pediatric rhabdomyosarcoma cell lines. |
| Human / 1:200 | Journal of cancer research and clinical oncology (2022; 148: 1337) "D,L-Methadone enhances the cytotoxic activity of standard chemotherapeutic agents on pediatric rhabdomyosarcoma." Author(s):Urla C,Corteletti I,Raible AS,Handgretinger R,Fuchs J,Warmann SW,Schmid E PubMed Article URL: http://dx.doi.org/10.1007/s00432-022-03945-y |

1 Immunoprecipitation References

| Species / Dilution | Summary |
|--------------------|--|
| | PA5-26138 was used in Immunoprecipitation to investigate the role of muopioid receptor (MOR) in the proliferation of Hepatocellular carcinoma (HCC) cell lines and the underlying mechanism. |
| Human / Not Cited | American journal of translational research (2021; 13: 3967) "Inhibition of mu-opioid receptor suppresses proliferation of hepatocellular carcinoma cells via CD147-p53-MAPK cascade signaling pathway." Author(s):Zhang JJ,Song CG,Dai JM,Zhang XQ,Lin P,Li L,Yang XM,Chen ZN PubMed Article URL: http://www.ncbi.nlm.nih.gov/pubmed/34149993 |

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.