

Datasheet for ABIN7601425
anti-5HT1B Receptor antibody (AA 35-390)



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	5HT1B Receptor (HTR1B)
Binding Specificity:	AA 35-390
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This 5HT1B Receptor antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-5HT1B/HTR1B Antibody Picoband®
Immunogen:	E.coli-derived human 5HT1B/HTR1B recombinant protein (Position: A35-S390).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-5HT1B/HTR1B Antibody Picoband® (ABIN7601425). Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	5HT1B Receptor (HTR1B)
Alternative Name:	HTR1B (HTR1B Products)
Background:	Synonyms: Thy-1 membrane glycoprotein, CDw90, Thy-1 antigen, CD90, THY1 Tissue Specificity: Detected adjacent to nodes of Ranvier in juxtaparanodal zones in spinal cord nerve fibers, but also in paranodal regions in some myelinated spinal cord axons (at protein level) (PubMed:11086297). Detected in the islet of Langerhans (PubMed:21483673). Background: 5-hydroxytryptamine receptor 1B also known as the 5-HT1B receptor is a protein that in humans is encoded by the HTR1B gene. The protein encoded by this intronless gene is a G-protein coupled receptor for serotonin (5-hydroxytryptamine). Ligand binding activates second messengers that inhibit the activity of adenylate cyclase and manage the release of serotonin, dopamine, and acetylcholine in the brain. The encoded protein may be involved in several neuropsychiatric disorders and therefore is often a target of antidepressant and other psychotherapeutic drugs.
Molecular Weight:	50 kDa
Gene ID:	3351
UniProt:	P28222
Pathways:	JAK-STAT Signaling , cAMP Metabolic Process , Regulation of G-Protein Coupled Receptor Protein Signaling , Feeding Behaviour , S100 Proteins

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1×10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Bartsch, T., Knight, Y. E., Goadsby, P. J. Activation of 5-HT(1B/1D) receptor in the periaqueductal gray inhibits nociception. Ann. Neurol. 56: 371-381, 2004. 2. Demchyshyn, L., Sunahara, R. K., Miller, K., Teitler, M., Hoffman, B. J., Kennedy, J. L., Seeman, P., Van Tol, H. H. M., Niznik, H. B. A human serotonin 1D receptor variant (5HT1D-beta) encoded by an intronless gene on chromosome 6. Proc. Nat. Acad. Sci. 89: 5522-5526, 1992. 3. Garcia-Nafria, J., Nehme, R., Edwards, P. C., Tate, C. G. Cryo-EM structure of the serotonin 5-HT(1B) receptor coupled to heterotrimeric G(o). Nature 558: 620-623, 2018.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage:	4 °C, -20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.