



# **Serotonin Receptor 1B (5-Hydroxytryptamine (Serotonin) Receptor 1B, 5-Hydroxytryptamine Receptor 1B, 5-HT-1B, 5-HT-1D-beta, 5-HT1B, 5-HT1B Receptor, 5-HT1DB, HTR1B, HTR1D2, HTR1DB, S12, Serotonin 1D beta Receptor)**

## **Catalog number**

S1001-19B

## **Supplier**

United States Biological

Serotonin (5-hydroxytryptamine, 5-HT), originally discovered as a serum factor plays important roles in regulating diverse biological processes in central and peripheral nervous systems, cardiovascular systems, and gastrointestinal systems (1). Molecular cloning studies have identified 5 receptors belonging to the 5-HT1 subtypes. These receptors are negatively coupled to adenylyl cyclase (2). Radioligand binding studies suggest the presence of 5-HT1B (formerly known as 5-HT1DbR) sites in substantia nigra, dorsal subiculum, globus pallidus, and superior collicum (3,4). The in situ hybridization studies show abundance of 5-HT1BR mRNA in CA1 pyramidal cells of hippocampus, Purkinje cells of cerebellum, olfactory tubercle, subthalamic nucleus and somewhat lower levels in the caudate-putamen, cortical areas, thalamic and hypothalamic nuclei (5).

## **Applications**

Suitable for use in Western Blot. Other applications not tested.

## **Recommended Dilution**

Optimal dilutions to be determined by the researcher.

## **Positive Control**

human, mouse, or rat brain

## **Storage and Stability**

May be stored at 4°C for short-term only. For long-term storage and to avoid repeated freezing and thawing, add sterile glycerol (40-50%), aliquot and store at -20°C. Aliquots are stable for at least 12 months at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

## **Immunogen**

This antibody was generated by immunizing rabbits with a mixture of synthetic peptides corresponding to amino acids 8-26 and 263-278 of rat 5-HT1BR (UniProt P28564) (6).

## **Formulation**

Supplied as a liquid in PBS, pH 7.2, 0.02% sodium azide.

## **Purity**

Purified by immunoaffinity chromatography.

**Specificity**

A 40-41kD band is detected. Species Crossreactivity: Human, Mouse, Rat

**Product Type**

Pab

**Source**

rat

**Isotype**

IgG

**Grade**

Affinity Purified

**Applications**

WB

**Crossreactivity**

Hu Mo Rt

**Storage**

-20°C