Tryptophan hydroxylase 2
Cat.No. 348 002; Polyclonal rabbit antibody, 200 µl antiserum (lyophilized)

Data Sheet

<table>
<thead>
<tr>
<th>Reconstitution/Storage</th>
<th>200 µl antiserum, lyophilized. For reconstitution add 200 µl H₂O, then aliquot and store at -20°C until use.</th>
</tr>
</thead>
</table>
| Applications           | WB: not tested yet  
                         | IP: not tested yet  
                         | ICC: not tested yet  
                         | IHC: 1 : 200  
                         | IHC-P/FFPE: 1 : 500 |
| Immunogen              | Recombinant protein corresponding to AA 1 to 139 from rat Tryptophanhydroxylase 2 (UniProt Id: Q8CGU9) |
| Reactivity             | Reacts with: rat (Q8CGU9), mouse (Q8CGV2). Other species not tested yet. |
| Specificity            | Specific for tryptophan hydroxylase 2 |

**TO BE USED IN VITRO / FOR RESEARCH ONLY**
**NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

**Tryptophan hydroxylase** (TPH) is an enzyme that catalyzes the 5-hydroxylation of tryptophan, which is the first step in the biosynthesis of indoleamines (serotonin and melatonin).

Two isoforms TPH 1 and TPH 2 have been described. TPH 1 occurs mainly in tissues that express serotonin in the periphery (skin, gut, pineal gland). TPH 2 is exclusively expressed in neuronal cell types and is the predominant isoform in the central nervous system.

In mammals, serotonin biosynthesis occurs predominantly in neurons which originate in the Raphe nuclei of the brain.

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**Selected General References**