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# Anti-5-HT4 Antibody

Catalog # AP51275

## Product Information

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|---|---|
| **Application** | WB, IHC, IF/IC |
| **Primary Accession** | Q13639 |
| **Reactivity** | Human, Pig, Bovine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 43761 |

## Additional Information

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|---|---|
| **Gene ID** | 3360 |
| **Other Names** | 5-hydroxytryptamine receptor 4; 5-HT-4; 5-HT4; Serotonin receptor 4 |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human 5-HT4. The exact sequence is proprietary. |
| **Dilution** | WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A |
| **Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

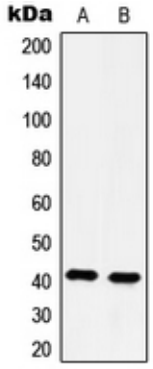
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|---|---|
| **Name** | HTR4 ( HGNC:5299) |
| **Function** | G protein-coupled receptor for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone and a mitogen (PubMed:10821780, PubMed:16102731, PubMed:35714614, PubMed:9603189). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors (PubMed:16102731, PubMed:35714614). HTR4 is coupled to G(s) G alpha proteins and mediates activation of adenylate cyclase activity (PubMed:16102731, PubMed:35714614). |
| **Cellular Location** | Cell membrane; Multi-pass membrane protein. Endosome membrane {ECO:0000250\|UniProtKB:P97288}; Multi-pass membrane protein. Note=Interaction with SNX27 mediates recruitment to early endosomes, while interaction with NHERF1 and EZR might target the protein to specialized subcellular regions, such as microvilli. {ECO:0000250\|UniProtKB:P97288} |
| **Tissue Location** | [Isoform 5-HT4(A)]: Expressed in ileum, brain, and atrium, but not in the |

ventricle. [Isoform 5-HT4(I)]: Expressed in all cardiovascular tissues analyzed.

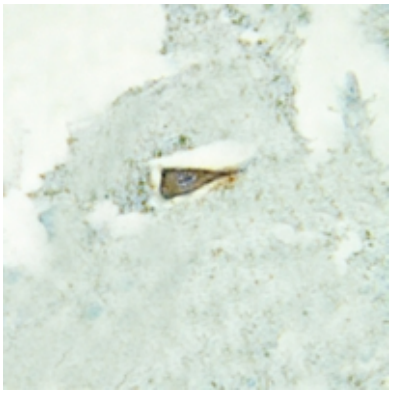
## References


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Claeysen S.,et al.NeuroReport 8:3189-3195(1997).
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Claeysen S.,et al.Mol. Pharmacol. 55:910-920(1999).

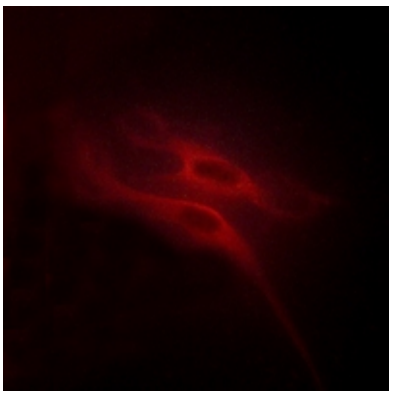

## Images




Western blot analysis of 5-HT4 expression in HeLa (A), Jurkat (B) whole cell lysates. (Predicted band size: 43 kD; Observed band size: 43 kD)



Immunohistochemical analysis of 5-HT4 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of 5-HT4 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark.


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