

Product Datasheet

5-HT4 Antibody - BSA Free

NBP1-78403

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-78403

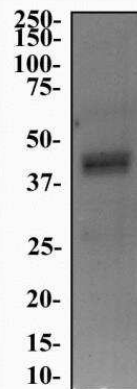
5-HT4 Antibody - BSA Free

| Product Information | |
|------------------------------------|--|
| Unit Size | 0.1 ml |
| Concentration | 1.09 mg/ml |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality | Polyclonal |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG |
| Purity | Immunogen affinity purified |
| Buffer | PBS and 30% Glycerol |
| Product Description | |
| Host | Rabbit |
| Gene ID | 3360 |
| Gene Symbol | HTR4 |
| Species | Human |
| Immunogen | A synthetic peptide made to a C-terminal portion of the human 5HT4 Receptor protein (between residues 350-388) [UniProt Q13639, isoform 1] |
| Product Application Details | |
| Applications | Western Blot, Immunocytochemistry/ Immunofluorescence |
| Recommended Dilutions | Western Blot 2 ug/ml, Immunocytochemistry/ Immunofluorescence 1:100 |
| Application Notes | This 5HT4 Receptor antibody is useful for Immunocytochemistry/Immunofluorescence where cytoplasmic staining is observed in HeLa cells. |

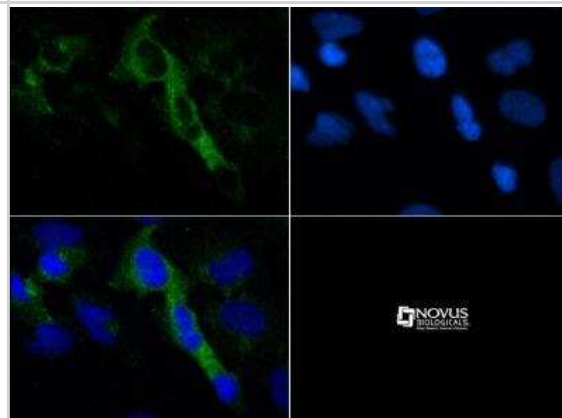


Images

Western Blot: 5-HT4 Antibody [NBP1-78403] - Western Blot Image of anti-5HT4 Receptor. Total protein from human liver tissue was separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/ml anti-LYVE1 in 1% milk/TBST. Reactivity was detected with an anti-rabbit HRP secondary antibody using chemiluminescence.



Immunocytochemistry/Immunofluorescence: 5-HT4 Antibody [NBP1-78403] - Staining of 5HT4 receptor in HeLa cells with FITC (green). Nuclei were counterstained with DAPI (blue).



Publications

Omote M, Wakimoto Y, Shibahara H Possible Role of 5-Hydroxytryptamine (5-HT) Receptor on Human Sperm Motility Regulation *Cureus* 2023-11-01 [PMID: 38033435] (IHC)

Procedures

Protocol specific for 5HT4 Receptor antibody (NBP1-78403)

5-HT4 Antibody:

Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.

Western Blot protocol for 5-HT4 Antibody (NBP1-78403)

5-HT4 Antibody:

Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 25 ug of total protein per lane.
2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot.
5. Block the membrane using standard blocking buffer for at least 1 hour.
6. Wash the membrane in wash buffer three times for 10 minutes each.
7. Dilute anti-5-HT4 primary antibody in blocking buffer and incubate 1 hour at room temperature.
8. Wash the membrane in wash buffer three times for 10 minutes each.
9. Apply the diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions.

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.



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Products Related to NBP1-78403

| | |
|-------------|---|
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |
| NBP1-78403B | 5-HT4 Antibody [Biotin] |

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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