# Product Datasheet

## VIAAT/SLC32A1/VGAT Antibody
## NBP2-20857

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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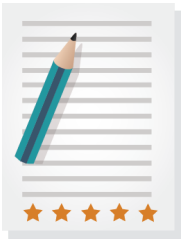

# NBP2-20857

VIAAT/SLC32A1/VGAT Antibody

## Product Information

| | |
|---|---|
| **Unit Size** | 0.1 ml |
| **Concentration** | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| **Storage** | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles. |
| **Clonality** | Polyclonal |
| **Preservative** | 0.025% Proclin 300 |
| **Isotype** | IgG |
| **Purity** | Antigen Affinity-purified |
| **Buffer** | PBS, 20% Glycerol |
| **Target Molecular Weight** | 57 kDa |

## Product Description

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|---|---|
| **Host** | Rabbit |
| **Gene ID** | 140679 |
| **Gene Symbol** | SLC32A1 |
| **Species** | Human, Mouse, Rat |
| **Reactivity Notes** | Xenopus laevis (82%). |
| **Immunogen** | Recombinant protein encompassing a sequence within the N-terminus region of human VIAAT/SLC32A1/VGAT. The exact sequence is proprietary. |

## Product Application Details

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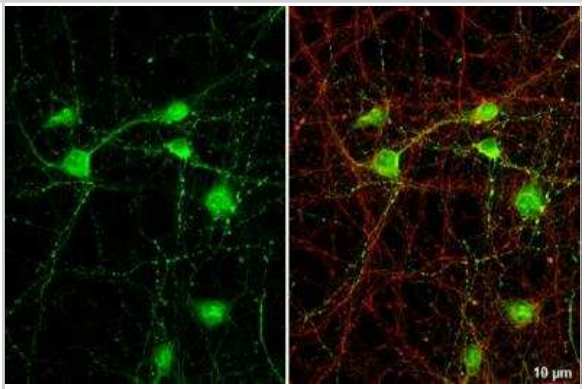
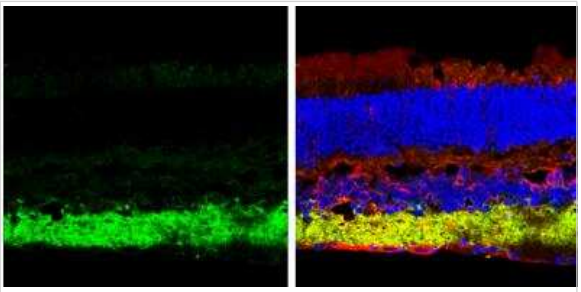
|---|---|
| **Applications** | Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin |
| **Recommended Dilutions** | Western Blot 1:1000-1:10000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000, Immunohistochemistry-Frozen 1:100-1:1000 |

## Images

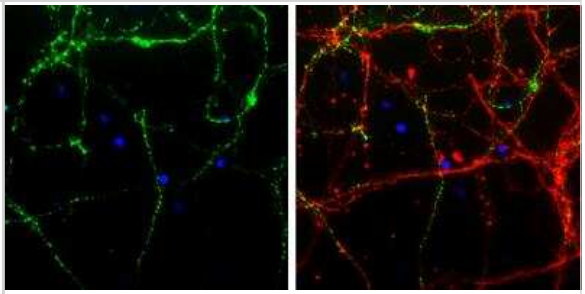
Immunocytochemistry/Immunofluorescence: VIAAT/SLC32A1/VGAT Antibody [NBP2-20857] - DIV9 rat cortical neuron and Glia cell cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: VGAT stained by VGAT antibody [N1N2], N-term diluted at 1:250. Red: Tau, a Axon marker, stained by Tau antibody [287] diluted at 1:500.



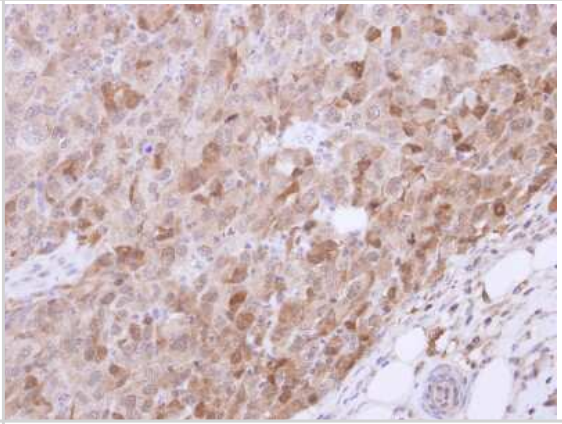
Immunohistochemistry-Frozen: VIAAT/SLC32A1/VGAT Antibody [NBP2-20857] - Frozen sectioned adult mouse retina. Green: VGAT protein stained by VGAT antibody [N1N2], N-term diluted at 1:250. Red: beta Tubulin 3/ TUJ1, stained by beta Tubulin 3/ TUJ1 antibody [11710] (NBP2-43559) diluted at 1:250. Blue: Fluoroshield with DAPI.



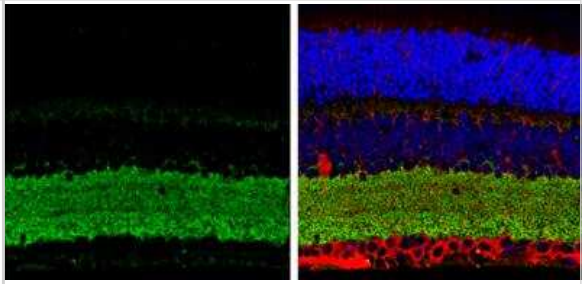
Immunocytochemistry/Immunofluorescence: VIAAT/SLC32A1/VGAT Antibody [NBP2-20857] - Cultured rat E18 primary cortical neuron, DIV 8. Cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: VGAT protein stained by VGAT antibody [N1N2], N-term diluted at 1:250. Red: beta Tubulin 3/ TUJ1, stained by beta Tubulin 3/ TUJ1 antibody [11710] (NBP2-43559) diluted at 1:250. Blue: Fluoroshield with DAPI.

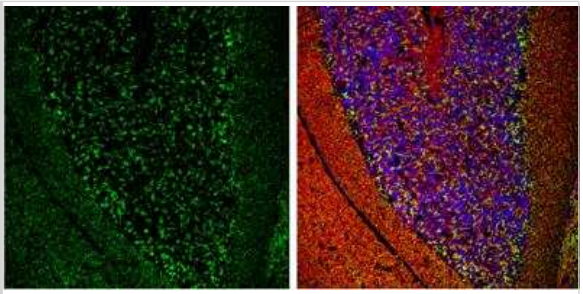
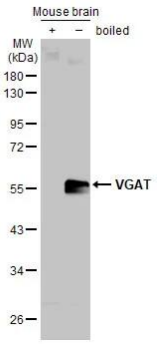
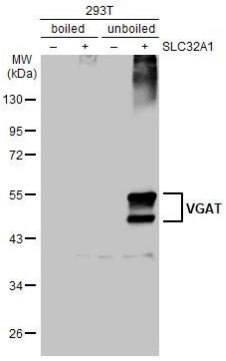
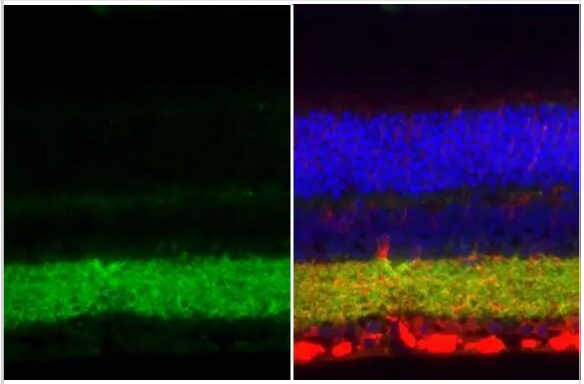


Immunohistochemistry-Paraffin: VIAAT/SLC32A1/VGAT Antibody [NBP2-20857] - CL1-5 xenograft, using VGAT antibody at 1:500 dilution. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.

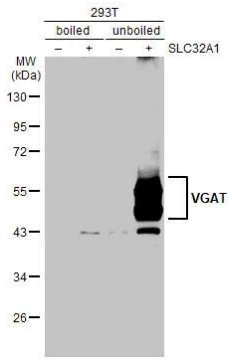


Immunohistochemistry-Paraffin: VIAAT/SLC32A1/VGAT Antibody [NBP2-20857] - Paraffin-Embedded adult mouse retina. Green: VGAT protein stained by VGAT antibody [N1N2], N-term diluted at 1:250. Red: beta Tubulin 3/ TUJ1, stained by beta Tubulin 3/ TUJ1 antibody [11710] (NBP2-43559) diluted at 1:500. Blue: Fluoroshield with DAPI.



| | |
|---|---|
| Immunohistochemistry-Frozen: VIAAT/SLC32A1/VGAT Antibody [NBP2-20857] - Frozen-sectioned adult mouse cerebellum. Green: VGAT protein stained by VGAT antibody [N1N2], N-term diluted at 1:250. Red: beta Tubulin 3/ TUJ1, stained by beta Tubulin 3/ TUJ1 antibody [11710] (NBP2-43559) diluted at 1:500. Blue: Fluoroshield with DAPI. |  |
| Western Blot: VIAAT/SLC32A1/VGAT Antibody [NBP2-20857] - Boiled and unboiled mouse tissue extract (50 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with VIAAT/SLC32A1/VGAT antibody [N1N2], N-term (NBP2-20857) diluted at 1:3000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody. |  |
| Western Blot: VIAAT/SLC32A1/VGAT Antibody [NBP2-20857] - Non-transfected (-) and transfected (+) Boiled and unboiled 293T whole cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with VIAAT/SLC32A1/VGAT antibody [N1N2], N-term (NBP2-20857) diluted at 1:2500. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody. |  |
| Immunohistochemistry-Paraffin: VIAAT/SLC32A1/VGAT Antibody [NBP2-20857] - VIAAT/SLC32A1/VGAT antibody [N1N2], N-term detects VIAAT/SLC32A1/VGAT protein at cytoplasm by immunohistochemical analysis.Sample: Paraffin-embedded mouse eye.Green: VIAAT/SLC32A1/VGAT stained by VIAAT/SLC32A1/VGAT antibody [N1N2], N-term (NBP2-20857) diluted at 1:500.Red: beta Tubulin 3/ Tuj1, a neural marker, stained by beta Tubulin 3/ Tuj1 antibody [GT11710] diluted at 1:500.Blue: Fluoroshield with DAPI .Antigen Retrieval: Citrate buffer, pH 6.0, 15 min |  |

Western Blot: VIAAT/SLC32A1/VGAT Antibody [NBP2-20857] - Non-transfected (-) and transfected (+) boiled and unboiled 293T whole cell extracts (30 ug) were separated by 10% SDS-PAGE, and the membrane was blotted with VIAAT/SLC32A1/VGAT antibody [N1N2], N-term (NBP2-20857) diluted at 1:2500. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.




## Publications

Choi G, Chae C, Park M et al. Prenatal Stress Selectively Impairs Neuroligin 1-Dependent Neurogenesis by Suppressing Astrocytic FGF2-Neuronal FGFR1 Axis Cell Mol Life Sci 2022-05-13 [PMID: 35562616] (ICC/IF, Human)

Pollard KJ, Bowser DA, Anderson WA Et al. Morphine-sensitive synaptic transmission emerges in embryonic rat microphysiological model of lower afferent nociceptive signaling Science advances 2021-08-01 [PMID: 34452921] (IF/IHC, Rat)

Lanfray D, Caron A, Roy MC et al. Involvement of the Acyl-CoA binding domain containing 7 in the control of food intake and energy expenditure in mice Elife 2016-03-24 [PMID: 26880548] (IHC-P, Mouse)

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## Products Related to NBP2-20857

| | |
|---|---|
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |
| NBP2-34131PEP | VIAAT/SLC32A1/VGAT Recombinant Protein Antigen |

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