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EB06558 - Goat Anti-VMAT2 / SLC18A2 Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: VMAT2, SLC18A2, SVAT, SVMT, VAT2, solute carrier family 18 (vesicular monoamine), member 2
Official Symbol: SLC18A2
Accession Number(s): NP_003045.2
Human GeneID(s): 6571
Non-Human GeneID(s): 214084 (mouse), 25549 (rat)

Immunogen

Peptide with sequence C-SYPIGEDEESESD, from the C Terminus of the protein sequence according to NP_003045.2.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:2000.
Western blot: Approx 60kDa band observed in lysates of cell lines K562 and Jurkat (calculated MW of 55.7kDa according to NP_003045.2). This band was successfully blocked by incubation with the immunizing peptide. Recommended concentration 1-3ug/ml. Primary incubation 1 hour at room temperature.

A batch specific positive control lysate is available for this product. Please contact Sales@everestbiotech.com for availability.

This product has been successfully used by a customer showing a band at approx. 55-60kDa in Mouse Fetal Brain lysates (calculated MW of 55.8kDa according to NP_766111.1), at primary ab concentration of 2ug/ml.

Species Reactivity

Tested: Human
Expected from sequence similarity: Human, Mouse, Rat

Specific References

This antibody (previous batch) has been successfully used in ICC on Mouse:
James Hennegan, Aled H. Bryant, Lauren Griffiths, Emma L. Lane, Mariah J. Lelos, Spyridon Theofilopoulos
Inhibition of 7α,26-dihydroxycholesterol biosynthesis promotes midbrain dopaminergic neuron development.
iScience. 2024 Jan 19; 27(1): 108670.
PMID: 38155767

This antibody (previous batch) has been successfully used in the following paper:
Feipeng Zhu, Lina Liu, Jie Li, Bing Liu, Qinglong Wang, Ruiying Jiao, Yongxin Xu, Lun

Wang, Suhua Sun, Xiaoxuan Sun, Muhammad Younus, Changhe Wang, Tomas Hökfelt, Bo Zhang, Howard Gu, Zhi-Qing David Xu, Zhuan Zhou
Cocaine increases quantal norepinephrine secretion through NET-dependent PKC activation in locus coeruleus neurons.
Cell Rep. 2022 Aug 16;40(7):111199.
PMID: 35977516

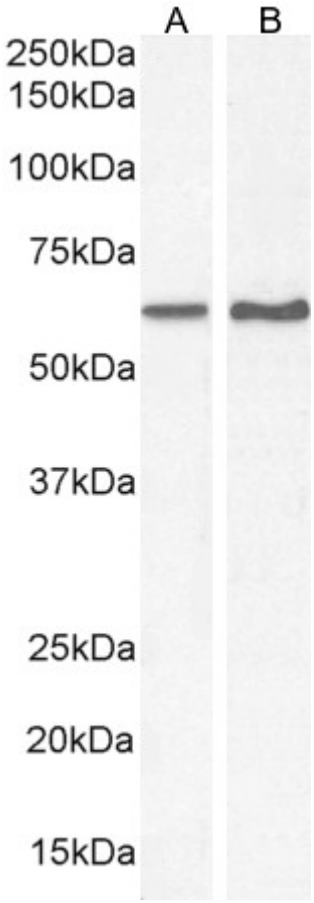
This antibody (previous batch) has been successfully used in IHC on Rat:
Majken B Thomsen, Sara A Ferreira, Anna C Schacht, Jan Jacobsen, Mette Simonsen, Cristine Betzer, Poul H Jensen, David J Brooks, Anne M Landau, Marina Romero-Ramos
PET imaging reveals early and progressive dopaminergic deficits after intra-striatal injection of preformed alpha-synuclein fibrils in rats
Neurobiol Dis. 2021 Feb;149:105229.
PMID: 33352233

This antibody (previous batch) has been successfully used in WB on Rat:
Anupam Raina, Kristian Leite, Sofia Guerin, Sameehan U Mahajani, Kalyan S Chakrabarti, Diana Voll, Stefan Becker, Christian Griesinger, Mathias Bähr, Sebastian Kügler
Dopamine promotes the neurodegenerative potential of β-synuclein.
J Neurochem. 2021 Mar;156(5):674-691.
PMID: 32730640

This antibody (previous batch) has been successfully used in IF on Mouse:
Haibo Zhou et al.
Glia-to-Neuron Conversion by CRISPR-CasRx Alleviates Symptoms of Neurological Disease in Mice.
Cell. 2020 Apr 30;181(3):590-603.e16.
PMID: 32272060

This antibody (previous batch) has been successfully used in IF on Rat:
Kato K, Yokoyama T, Kusakabe T, Hata K, Fushuku S, Nakamuta N, Yamamoto Y
Differences in the expression of catecholamine-synthesizing enzymes between vesicular monoamine transporter 1- and 2-immunoreactive glomus cells in the rat carotid body
Acta Histochem. 2020 Jan 16:151507.
PMID: 31955909

This antibody (previous batch) has been successfully used in Western blot on Rat:
Shiliang Zhang, Jia Qi, Xueping Li, Hui-Ling Wang, Jonathan P. Britt, Alexander F. Hoffman, Antonello Bonci, Carl R. Lupica, and Marisela Morales.
Dopaminergic and glutamatergic microdomains within a subset of rodent mesoaccumbens axons.
Nat Neurosci. 2015 March;18(3):386–392.
PMID: 25664911



EB06558 (2µg/ml) staining of K562 (A) and Jurkat (B) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.