# Product Datasheet

## SLC6A12 Antibody - BSA Free
## NBP1-88641

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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# NBP1-88641

SLC6A12 Antibody - BSA Free

## 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** | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| **Clonality** | Polyclonal |
| **Preservative** | 0.02% Sodium Azide |
| **Isotype** | IgG |
| **Purity** | Affinity purified |
| **Buffer** | PBS (pH 7.2) and 40% Glycerol |

## Product Description

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|---|---|
| **Description** | Novus Biologicals Rabbit SLC6A12 Antibody - BSA Free (NBP1-88641) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-SLC6A12 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| **Host** | Rabbit |
| **Gene ID** | 6539 |
| **Gene Symbol** | SLC6A12 |
| **Species** | Human |
| **Immunogen** | This antibody was developed against Recombinant Protein corresponding to amino acids: TRGPFRKRLRQLITPDSSLPQPKQHPCLDGSAGRNFGPSPTREGLIAGEKETHL |

## Product Application Details

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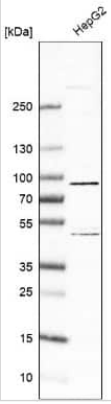
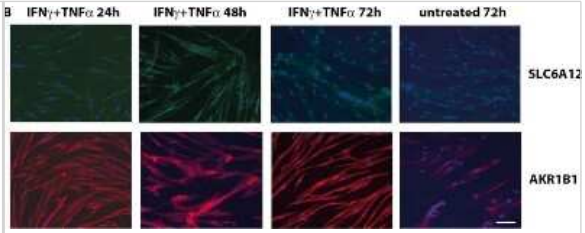
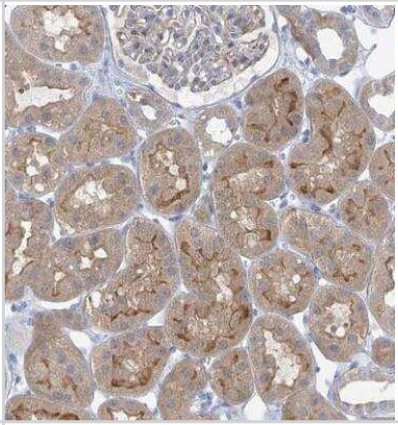
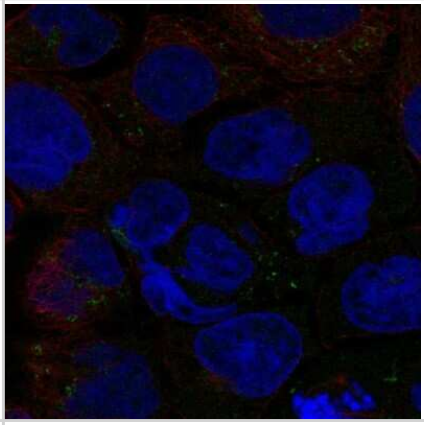
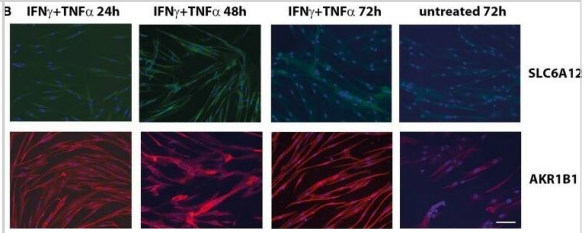
|---|---|
| **Applications** | Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry |
| **Recommended Dilutions** | Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50-1:200 |
| **Application Notes** | IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF, Fixation/Permeabilization: PFA/Triton X-100. |

## Images

Western Blot: SLC6A12 Antibody [NBP1-88641] - Analysis in human cell line HepG2.



| | |
|---|---|
| Immunocytochemistry/Immunofluorescence: SLC6A12 Antibody [NBP1-88641] - Immunofluorescent cytostaining. Staining with rabbit anti-SLC6A12 (AlexaFluor 488, green) and goat anti-AKR1B1 (AlexaFluor594, red) in cultured healthy human myotubes at different time points. Myotubes treated with 300 u/ml IFNgamma and 30 ng/ml TNFalpha display low levels of SLC6A12 that is increased at the 48 h time point. Levels return back to constitutive low levels after 72 h, with staining levels similar to those in untreated cells. Staining for AKR1B1 shows continuously high levels between 24 and 72 h. In untreated cells, AKR1B1 expression levels are substantially lower. Scale bar = 50 um. Image collected and cropped by CiteAb from the following publication (https://www.frontiersin.org/article/10.3389/fneur.2018.00846/full), licensed under a CC-BY license. |  |
| Immunohistochemistry-Paraffin: SLC6A12 Antibody [NBP1-88641] - Staining of human kidney shows moderate cytoplasmic and luminal membranous positivity in cells in tubules. |  |
| Immunocytochemistry/Immunofluorescence: SLC6A12 Antibody [NBP1-88641] - Staining of human cell line CACO-2 shows localization to vesicles. Antibody staining is shown in green. |  |
| Immunofluorescent cytostaining. (A) Staining with mouse anti-SLC6A12 (AlexaFluor 594, red) and rabbit anti-AKR1B1 (AlexaFluor488, green) in CCL-136 cells after 24 h treatment. Untreated control cells shows low levels of SLC6A12 and AKR1B1. Treatment with 30 ng/ml TNFα markedly increases AKR1B1 levels. Treatment with 300 u/ml IFNγ and 30 ng/ml TNFα strongly increases both SLC6A12 levels and AKR1B1 protein levels. Addition of 100 mM NaCl to the medium also increases both SLC6A12 and AKR1B1 protein expression. (B) Staining with rabbit anti-SLC6A12 (AlexaFluor 488, green) and goat anti-AKR1B1 (AlexaFluor594, red) in cultured healthy human myotubes at different time points. Myotubes treated with 300 u/ml IFNγ and 30 ng/ml TNFα display low levels of SLC6A12 that is increased at the 48 h time point. Levels return back to constitutive low levels after 72 h, with staining levels similar to those in untreated cells. Staining for AKR1B1 shows continuously high levels between 24 and 72 h. In untreated cells, AKR1B1 expression levels are substantially lower. Scale bar = 50 µm. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/30364257), licensed under a CC-BY license. Not internally tested by Novus Biologicals. |  |

## Publications

C Merckx, G Cosemans, J Zschüntzsc, R Raedt, J Schmidt, B De Paepe, JL De Bleecke Description of Osmolyte Pathways in Maturing Mdx Mice Reveals Altered Levels of Taurine and Sodium/Myo-Inositol Co-Transporters International Journal of Molecular Sciences, 2022-03-17;23(6):. 2022-03-17 [PMID: 35328671] (Immunocytochemistry/ Immunofluorescence, Human)

Xie Y, Yang F, He L, Huang H et Al. Single-cell dissection of the human blood-brain barrier and glioma blood-tumor barrier Neuron 2024-08-27 [PMID: 39191260]

De Paepe B, Zschuntzsch J, Šokčević T et al. Induction of Osmolyte Pathways in Skeletal Muscle Inflammation: Novel Biomarkers for Myositis. Front Neurol. 2018-10-11 [PMID: 30364257] (ICC/IF, Human)

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## Products Related to NBP1-88641

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|---|---|
| NBP1-88641PEP | SLC6A12 Recombinant Protein Antigen |
| NBP2-33376H | Blue Marker Antibody (6F4-F6) [HRP] |
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |

### 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.

**For more information on our 100% guarantee, please visit www.novusbio.com/guarantee**

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