

# Product Datasheet

## KLC2 Antibody - BSA Free NBP1-83723

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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### Publications: 2

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Updated 2/21/2025 v.20.1

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**NBP1-83723**

KLC2 Antibody - BSA Free

**Product Information**

|                      |                                                                                                                  |
|----------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Unit Size</b>     | 0.1 ml                                                                                                           |
| <b>Concentration</b> | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| <b>Storage</b>       | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.                           |
| <b>Clonality</b>     | Polyclonal                                                                                                       |
| <b>Preservative</b>  | 0.02% Sodium Azide                                                                                               |
| <b>Isotype</b>       | IgG                                                                                                              |
| <b>Purity</b>        | Immunogen affinity purified                                                                                      |
| <b>Buffer</b>        | PBS (pH 7.2) and 40% Glycerol                                                                                    |

**Product Description**

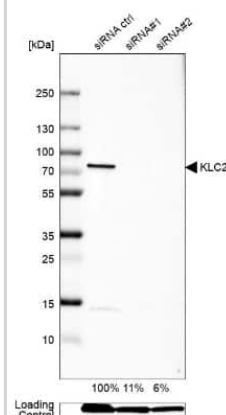
|                         |                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Host</b>             | Rabbit                                                                                                                                                          |
| <b>Gene ID</b>          | 64837                                                                                                                                                           |
| <b>Gene Symbol</b>      | KLC2                                                                                                                                                            |
| <b>Species</b>          | Human, Mouse, Rat                                                                                                                                               |
| <b>Reactivity Notes</b> | Reactivity reported in scientific literature (PMID: 23435261)                                                                                                   |
| <b>Immunogen</b>        | This antibody was developed against Recombinant Protein corresponding to amino acids:<br>MAMMVFPREEKLSQDEIVLGTKAVIQGLETLRGEHRALLAPLVAPEAGEAEPG<br>SQERCILLRRSLE |

**Product Application Details**

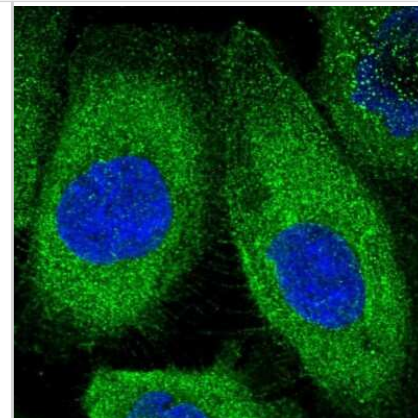
|                              |                                                                                                                                                                                         |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>          | Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated                                                         |
| <b>Recommended Dilutions</b> | Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200 - 1:500, Knockdown Validated |
| <b>Application Notes</b>     | For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.                                                                           |

**Images**

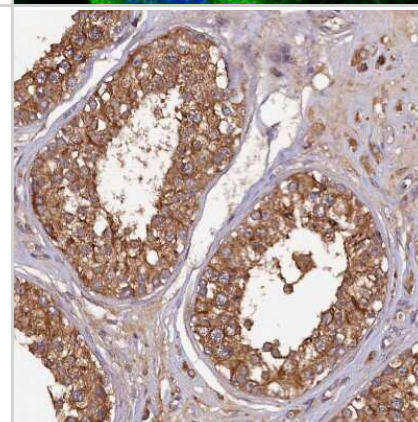
Western Blot: KLC2 Antibody [NBP1-83723] - Analysis in U-138MG cells transfected with control siRNA, target specific siRNA probe #1 and #2. Remaining relative intensity is presented. Loading control: Anti-GAPDH.



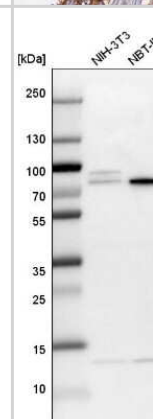
Immunocytochemistry/Immunofluorescence: KLC2 Antibody [NBP1-83723] - Staining of human cell line A-431 shows positivity in plasma membrane and cytoplasm. Antibody staining is shown in green.



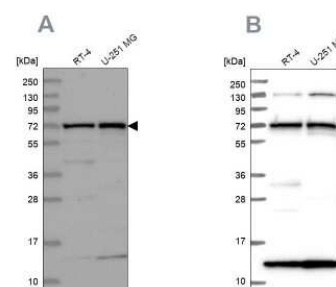
Immunohistochemistry-Paraffin: KLC2 Antibody [NBP1-83723] - Staining of human testis shows strong granular cytoplasmic positivity in cells in seminiferous ducts.



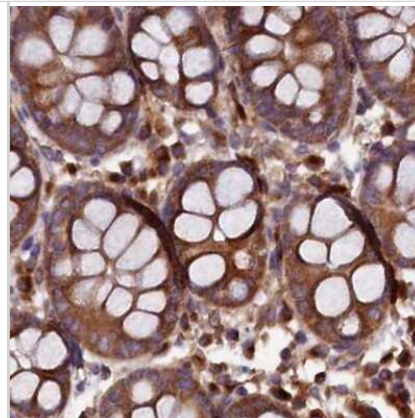
Western Blot: KLC2 Antibody [NBP1-83723] - Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



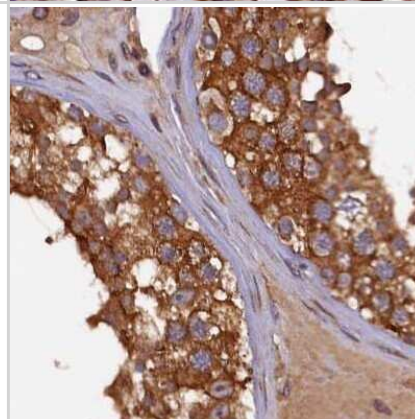
Western Blot: KLC2 Antibody [NBP1-83723] - Analysis using Anti-KLC2 antibody NBP1-83723 (A) shows similar pattern to independent antibody NBP1-83722 (B).



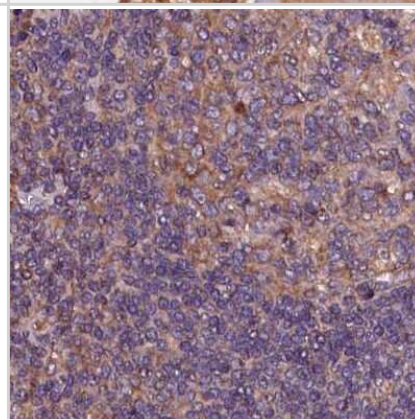
Immunohistochemistry-Paraffin: KLC2 Antibody [NBP1-83723] - Staining of human colon.



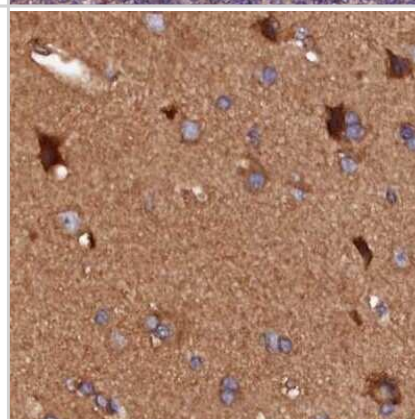
Immunohistochemistry-Paraffin: KLC2 Antibody [NBP1-83723] - Staining of human testis.



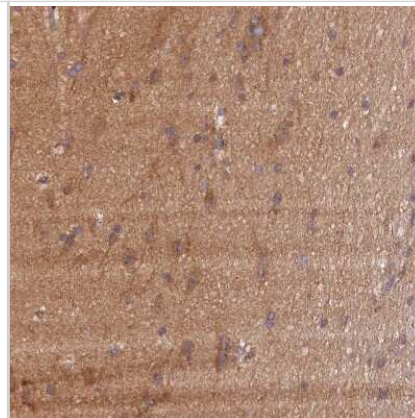
Immunohistochemistry-Paraffin: KLC2 Antibody [NBP1-83723] - Staining of human lymph node.



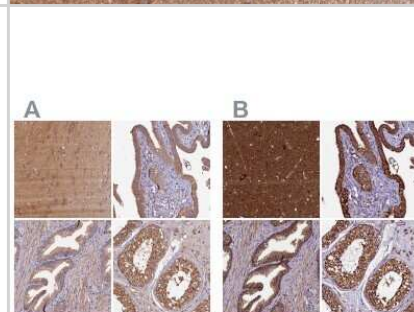
Immunohistochemistry-Paraffin: KLC2 Antibody [NBP1-83723] - Staining of human cerebral cortex.



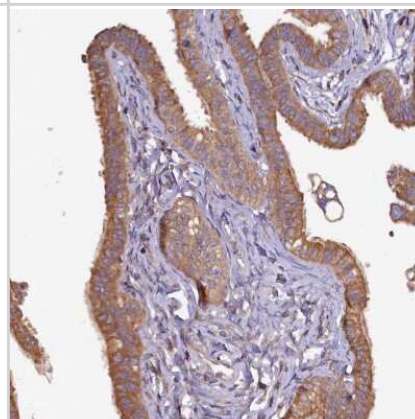
Immunohistochemistry-Paraffin: KLC2 Antibody [NBP1-83723] - Staining of human cerebral cortex shows moderate positivity in neuropil.



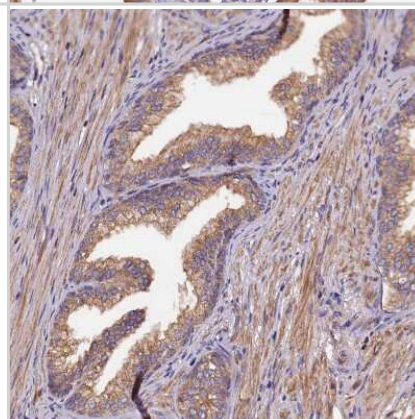
Immunohistochemistry-Paraffin: KLC2 Antibody [NBP1-83723] - Staining of human cerebral cortex, fallopian tube, prostate and testis using Anti-KLC2 antibody NBP1-83723 (A) shows similar protein distribution across tissues to independent antibody NBP1-83722 (B).



Immunohistochemistry-Paraffin: KLC2 Antibody [NBP1-83723] - Staining of human Fallopian tube shows moderate granular cytoplasmic positivity in glandular cells.



Immunohistochemistry-Paraffin: KLC2 Antibody [NBP1-83723] - Staining of human prostate shows moderate granular cytoplasmic positivity in glandular cells.



## Publications

Xie B, Pu Y, Yang F, Chen W et Al. Proteomic Mapping and Targeting of Mitotic Pericentriolar Material in Tumors Bearing Centrosome Amplification Cancer Res 2022-06-01 [PMID: 35648393]

Stadler C, Rexhepaj E, Singan VR et al. Immunofluorescence and fluorescent-protein tagging show high correlation for protein localization in mammalian cells. Nat Methods 2013-04-01 [PMID: 23435261]



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### **Products Related to NBP1-83723**

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|               |                                                     |
|---------------|-----------------------------------------------------|
| NBP1-83723PEP | KLC2 Recombinant Protein Antigen                    |
| HAF008        | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160        | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891    | Rabbit IgG Isotype Control                          |

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### **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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