

## Product datasheet

### anti-Lamin B mouse monoclonal, X223, lyophilized, purified

#### Short overview

|                      |                                                     |
|----------------------|-----------------------------------------------------|
| <b>Cat. No.</b>      | 61047C                                              |
| <b>Quantity</b>      | 50 µg                                               |
| <b>Concentration</b> | 50 µg/ml after reconstitution with 1 ml dist. water |

#### Product description

|                                      |                                                                                                                            |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Host</b>                          | Mouse                                                                                                                      |
| <b>Antibody Type</b>                 | Monoclonal                                                                                                                 |
| <b>Isotype</b>                       | IgG1                                                                                                                       |
| <b>Clone</b>                         | X223                                                                                                                       |
| <b>Immunogen</b>                     | Nuclear pore complex-lamina fraction of <i>Xenopus laevis</i> (XLKE-A6 cells)                                              |
| <b>Formulation</b>                   | Lyophilized; reconstitute in 1 ml dist. water (final solution contains 0.09% sodium azide, 0.5% BSA in PBS buffer, pH 7.4) |
| <b>UniprotID</b>                     | A0A3Q1LNG7 (Bovine), P20700 (Human), P14733 (Mouse), P70615 (Rat)                                                          |
| <b>Synonym</b>                       | Lamin-B1, LMNB1, LMN2, LMNB                                                                                                |
| <b>Conjugate</b>                     | Unconjugated                                                                                                               |
| <b>Purification</b>                  | Affinity chromatography                                                                                                    |
| <b>Storage before reconstitution</b> | 2-8°C until indicated expiry date                                                                                          |
| <b>Storage after reconstitution</b>  | Up to 3 months at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles                                  |
| <b>Intended use</b>                  | Research use only                                                                                                          |
| <b>Application</b>                   | ICC/IF, IHC, WB                                                                                                            |
| <b>Reactivity</b>                    | Bovine, Human, Mouse, Rat, Rat kangaroo, Trout                                                                             |

#### Applications

|                                            |                 |
|--------------------------------------------|-----------------|
| <b>Immunocytochemistry (ICC)</b>           | 1:10            |
| <b>Immunohistochemistry (IHC) - frozen</b> | 1:10            |
| <b>Western Blot (WB)</b>                   | Assay dependent |

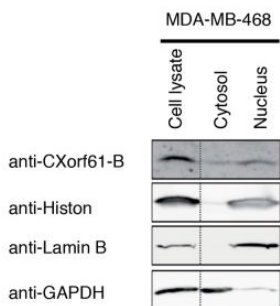
#### Background

The monoclonal antibody decorates the karyoskeleton, i.e. the intermediate filament equivalent of the nucleus. The epitope was localized to coil 1B (Schumacher et al. 2006). Polypeptides reacting: Lamin isotypes of Mr 60-75 kDa. Schumacher, J., Reichenzeller, M., Kempf, T., Schnoelzer, M. and Herrmann, H. Identification of a novel, highly variable amino-terminal amino acid sequence element in the nuclear intermediate filament protein lamin B2 from higher vertebrates. FEBS Lett. 580, 6211-6216 (2006).

## Product images



anti-Lamin B mouse monoclonal, X223, lyophilized, purified  
**B)**



[Paret, C., Simon, P., et al. CXorf61 is a target for T cell based immunotherapy of triple-negative breast cancer. Oncotarget. 2015-09-22.](#)

Species/Reactant: Homo sapiens (Human) Applications: Western Blotting Image collected and cropped by CiteAb from the following publication, provided under a CC-BY licence.

## References

| Publication                                                                                                                                                                                                                                                                        | Species | Application |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------|
| <a href="#">Heinz, K. S. et al. Peripheral re-localization of constitutive heterochromatin advances its replication timing and impairs maintenance of silencing marks., Nucleic Acids Res 46, 6112-6128, (2018).</a>                                                               | mouse   | ICC-IF      |
| <a href="#">Paret, C. et al. CXorf61 is a target for T cell based immunotherapy of triplenegative breast cancer. Oncotarget 6, 25356â€“25367 (2015).</a>                                                                                                                           | human   | WB          |
| <a href="#">Kolb, T., Maass, K., Hergt, M., Aebi, U. &amp; Herrmann, H. Lamin A and lamin C form homodimers and coexist in higher complex forms both in the nucleoplasmic fraction and in the lamina of cultured human cells. Nucleus 2, 425-33 (2011).</a>                        | human   | WB          |
| <a href="#">Schumacher, J., Reichenzeller, M., Kempf, T., SchnÄ“lzer, M. &amp; Herrmann, H. Identification of a novel, highly variable amino-terminal amino acid sequence element in the nuclear intermediate filament protein lamin B2 from higher vertebrates. FEBS Lett. 58</a> | human   | WB,ICC-IF   |
| <a href="#">Alzheimer, M., von Glasenapp, E., Schnolzer, M., Heid, H. &amp; Benavente, R. Meiotic lamin C2: the unique amino-terminal hexapeptide GNAEGR is essential for nuclear envelope association. Proc. Natl. Acad. Sci. U. S. A. 97, 13120-5 (2000)</a>                     | monkey  | ICC-IF      |