

# Product Datasheet

## Exosome Standards (Human Plasma)

### NBP3-11686-180ug

Unit Size: 6 x 30ug Vials

Store at 4C. After reconstitution store at -70C.

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**NBP3-11686-180ug****Exosome Standards (Human Plasma)**

| <b>Product Information</b>         |                                                                                                                                                                                                                                                               |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Unit Size</b>                   | 6 x 30ug Vials                                                                                                                                                                                                                                                |
| <b>Concentration</b>               | Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.                                                                                                                              |
| <b>Storage</b>                     | Store at 4C. After reconstitution store at -70C.                                                                                                                                                                                                              |
| <b>Reconstitution Instructions</b> | Add deionized water, 100 ul for Standard 100 ug and 30 ul for Standard 30 ug, to get a final concentration of 1 mg/mL. Resuspend exosomes pipetting the solution up and down 10-15 times, avoiding bubbles. Vortex the reconstituted standard for 60 seconds. |
| <b>Buffer</b>                      | Lyophilized from human biofluids of healthy donors                                                                                                                                                                                                            |

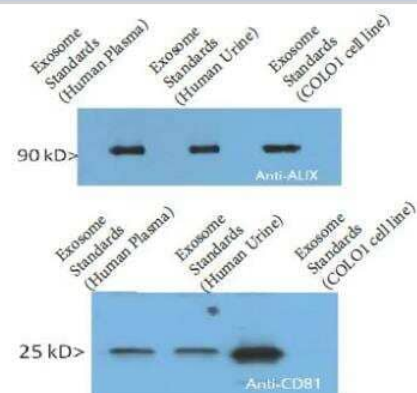
| <b>Product Description</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>         | Highly pure, lyophilized exosome standards with superior stability, optimal for multiple applications including: Assay calibration, Spike-in control for exosome quantification, Protein marker analysis for different techniques such as Western Blot and Flow Cytometry, Extraction and analysis of exosomal RNA and DNA, Standardized positive controls for evaluating immunocapture performance. Quantity per vial of 30 ug size (number of particles in 30 ug: $> 1 \times 10^8$ ). Quantity per vial of 100 ug size (number of particles in 100 ug: $> 1 \times 10^{10}$ ). Store lyophilized exosomes up to 3 years at 4C (Expire date indicated on the label). For reconstituted exosomes store at -20C for up to one month or at -80C for up to 6 months. Avoid repeated freeze-and-thaw cycles. |
| <b>Preparation Method</b>  | Isolation involves Tangential flow filtration combined with Size Exclusion Chromatography. Exosomes (small EVs) are quantified and validated for protein content and particle number by Nanoparticle Tracking Analysis as well as for common tetraspanins marker validation. Lyophilization does not alter stability of exosome proteins and nucleic acids.                                                                                                                                                                                                                                                                                                                                                                                                                                               |

| <b>Product Application Details</b> |                                                                                   |
|------------------------------------|-----------------------------------------------------------------------------------|
| <b>Applications</b>                | Western Blot, ELISA, Electron Microscopy, Flow Cytometry, Nucleic Acid Extraction |
| <b>Recommended Dilutions</b>       | Western Blot, Flow Cytometry, ELISA, Electron Microscopy, Nucleic Acid Extraction |

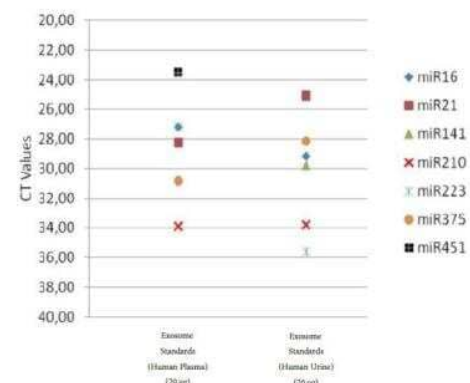


## Images

**Western Blot: Exosome Standards (Human Plasma) [NBP3-11686] -** Marker detection by Western Blotting. Reconstituted Exosomes can be directly lysed in Laemmli buffer, then loaded on the Electrophoresis gel. Recommended quantity: 10-20 ug per line.



**Nucleic Acid Extraction: Exosome Standards (Human Plasma) [NBP3-11686] -** Profiling of Exosome associated nucleic acids. Reconstituted Exosomes can be used for profiling nucleic acids (RNAs and DNA) biomarkers. The lysis buffer can be added directly to the Exosome preparation. Recommended quantity: 20-50 ug per reaction.





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### **Limitations**

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