

## Product Datasheet

### Podoplanin (MAP tag) antibody (orb758777)

**Description**

Rabbit monoclonal antibody to Podoplanin

**Species/Host**

Rat

**Reactivity**

Mouse

**Conjugation**

Unconjugated

**Tested**

Blocking, ELISA, IHC, WB

**Applications**
**Immunogen**

This antibody was raised by immunising rats with 14-residue synthetic peptide mpp3851, which corresponds to amino acids 38-51 (GDGMVPPGIEDKIT) of the platelet-aggregation-stimulating (PLAG) domain of mouse podoplanin. Spleen cells were then harvested, and fused to P3U1 cells to generate stable hybridomas.

**Target**

Podoplanin (MAP tag)

**Preservatives**

PBS with 0.02% Proclin 300.

**Concentration**

1 mg/ml

**Storage**

Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Note**

For research use only

**Application notes**

This antibody binds to the PLAG domain of murine PDPN and is, therefore, able to block its interaction with C-type lectin-like receptor-2 (CLEC-2) (Yamada, 2017). This has a number of potential therapeutic applications, including the suppression of lymphangiogenesis and inflammatory macrophage infiltration at the site of wound healing in mouse corneal suture and ear section models (Maruyama et al, 2014), as well as suppression of transplant rejection. This antibody possesses high affinity and specificity for the MAP epitope tag (GDGMVPPGIEDK), and can, therefore, be used to detect and purify tagged proteins in a range of assay formats (Fujii et al, 2016). PMAb-1 performs well in immunohistochemical analysis, and has been used to stain the mouse melanoma B16-F10 and mouse podoplanin-expressing CHO transfectants (Kaji et al, 2012). The use of this antibody in immunostaining of somatic tissues,

Biorbyt Ltd.

7 Signet Court, Swann's Road, Cambridge, CB5 8LA, United Kingdom

Email: [info@biorbyt.com](mailto:info@biorbyt.com) | Phone: +44 (0) 1223 859-353 | Fax: +44 (0)1223 280 240

Biorbyt LLC.

68 TW Alexander Drive&lt;br&gt;Research Triangle Park&lt;br&gt;Durham, North Carolina&lt;br&gt;27709, United States

Email: [info@biorbyt.com](mailto:info@biorbyt.com) | Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558