
Product Datasheet

Podoplanin (MAP tag) antibody (orb758778)

Description

Rat monoclonal antibody to Podoplanin

Species/Host

Rat

Reactivity

Mouse

Conjugation

Unconjugated

Tested Applications

Blocking, ELISA, IHC, WB

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,