

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Prominin 2. Stains human Prominin 2-transfected cells but not irrelevant transfectants.
Source	Monoclonal Mouse IgG _{2B} Clone # 244029
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human Prominin 2 Ala27-Leu834 Accession # AAM10541
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	LNCaP human prostate cancer cell line

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Prominin 2 is a pentaspan membrane glycoprotein predominantly expressed in neuroepithelial cells, hematopoietic stem cells and epithelial cells of the adult kidney and digestive tract (1, 2). Prominin 2 is a 112-kDa glycoprotein structurally related to prominin 1 (CD133). The amino acid identity between prominin 1 and prominin 2 is low (<30%), but they exhibit some redundant functions.

References:

1. Fargeas, C.A. *et al.* (2003) *J. Biol. Chem.* **278**(10):8586.
2. Fargeas, C.A. *et al.* (2003) *Stem Cells* **21**(4):506.

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