Product Specifications

**Description**
CD29 (β1 integrin subunit) mouse monoclonal antibody

**Immunoglobulin class:** IgG1

**Clone:** 7F10

**Immunogen:** Fusion protein representing the extracellular amino terminal domain.

**Epitope:** See Immunogen.

**Presentation:**
Lyophilized tissue culture supernatant containing 15mM sodium azide. Reconstitute with 1 ml of distilled water.

**Species cross-reactivity:** Human

**Storage Conditions:**
Keep unopened vial at 2 - 8 °C for 1 year. Once opened it is recommended that the stock solution be aliquotted and quick frozen and stored at -20 °C. Do not repeatedly freeze/thaw.

**Applications:**

**Immunohistochemistry**
Paraffin sections: Antigen unmasking recommended.

Frozen sections: No

**Working Dilution**:
Frozen sections: 1:20 - 1:40 for 1 hr. at 25 °C.

**Positive Control:**
Tonsil, mucosa, and lymphocytes. Membrane staining pattern.

**Western blotting:**
Not recommended.

* *Recommended dilutions using VECTASTAIN® Elite® ABC Kits.*

**Functional Aspects:**
CD29 antigen is the β1 subunit that makes up an integrin heterodimer. The β1 subunit associates with one of several alpha subunits that form defined integrin receptors that bind extracellular matrix components such as laminin, collagen, and fibronectin. The integrins are therefore involved with a number of processes including cell migration, wound healing, inflammation and probably cell signaling. This antibody will help detect CD29 and further characterize integrin expression on a variety of tissues.

**Selected References**