Integrin β3 Antibody (Catalog # 4702) is a polyclonal antibody that detects endogenous levels of total integrin β3 protein. This antibody does not cross-react with other integrin isoforms.

**Applications:**
- **WB:** Western Blotting

**Dilution:**
- 1:1000

**Storage:**
- Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

**Specificity / Sensitivity:**
- Integrin beta3 Antibody detects endogenous levels of total integrin beta3. This antibody does not cross-react with other integrin isoforms.

**Source / Purification:**
- Polyclonal antibodies are produced by Immunizing animals with synthetic peptides corresponding to human and mouse integrin beta3. Antibodies are purified by protein A and peptide affinity chromatography.

**Background:**
- Integrins are heterodimeric cell surface receptors that play a pivotal role in cell adhesion and migration, as well as in growth and survival. The integrin family contains at least 18 α and 8 β subunits that form 24 known integrins with distinct tissue distribution and overlapping ligand specificities. Integrins not only transmit signals to cells in response to the extracellular environment (outside-in signaling), but also sense intracellular cues to alter their interaction with the extracellular environment (inside-out signaling). αIIβ3 and αVβ3 are the two β3 containing integrins which are prominently expressed in hematopoietic cells and angiogenic endothelial cells and perform adhesive functions in hemostasis, wound healing and angiogenesis. Tyr773 and Tyr785 (usually referred to as Tyr747 and Tyr759 based on the chicken sequence) are phosphorylated upon ligand binding. Phosphorylation of these tyrosine residues is required for certain ligand-induced signaling. Thr779 (corresponding to Thr753 of the chicken sequence) of integrin β3 in the platelet specific αIIβ3 is phosphorylated by PKD1 and/or Akt, which may modulate integrin association with other signaling molecules.

**Background References:**

**Species Reactivity:**
- Important: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Western Blot Buffer:**
- WB: Western Blotting

**Applications Key:**
- WB: Western Blotting

**Cross-Reactivity Key:**

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