CD19 (phospho-Y531) polyclonal antibody

**BackGround:**
CD19 is a transmembrane glycoprotein that contains two extracellular immunoglobulin-like domains. CD19 is selectively expressed on the cell surface of B-lymphocytes, where it activates intracellular signaling cascades involving both Ras and phosphatidylinositol 3-kinase pathways. Activation of CD19 results in cross-linking of the membrane protein immunoglobulin chains and the subsequent association with Src family protein tyrosine kinases (PTK). Expression of CD19 is continuous throughout B-cell development and through terminal differentiation of B-cells into plasma cells. CD19 forms functional complexes with B-lymphocyte surface proteins, including integrin β1, CD21 and CD81, which are involved in regulating B-cell development.

**Product:**
1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

**Molecular Weight:**
~ 61, 95 kDa

**Swiss-Prot:**
P15391

**Purification&Purity:**
The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

**Applications:**
WB: 1:500–1:1000

**Storage&Stability:**
Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.

**Specificity:**
p-CD19 (Y531) pAb detects endogenous levels of CD19 protein only when phosphorylated at Tyr531.

**DATA:**
Western blot (WB) analysis of p-CD19 (Y531) pAb at 1:500 dilution
Lane1:Hela cell lysate treated with EGF(0.1ng/ML,30mins)
Lane2:Raw264.7 cell lysate treated with EGF(0.1ng/ML,30mins)
Lane3:H9C2 cell lysate treated with EGF(0.1ng/ML,30mins)

**Note:**
For research use only, not for use in diagnostic procedure.