Anti-Phospho-Ser\(^{679/683}\) FAM129B

**Catalog Number:** p170-679  \n**Size:** 100 µl

**Product Description:** Affinity purified rabbit polyclonal antibody

**Applications:** WB: 1:1000

**Antigen:** Phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser\(^{679/683}\) of the human FAM129B sequence.

**Species reactivity:** The antibody has been directly tested for reactivity in Western blots with mouse 3T3 cells. It is anticipated that the antibody will react with human and non-human primate tissues based on the fact that these species have 100% homology with the amino acid sequence used as antigen.

**Biological Significance:** FAM129B, also known as Niban-like protein 1, belongs to a poorly characterized protein family with unknown category and function. Increased expression of the Niban gene has been observed in renal carcinomas (Adachi et al., 2004; Sun et al., 2007). Suppression of FAM129B expression in HeLa cells has been seen to promote apoptosis, suggesting that it can modulate cell death signaling, and may be involved in the ER stress response (Sun et al., 2007). FAM129B is also up-regulated in various types of thyroid tumors and Hashimoto’s thyroiditis (Matsumoto et al., 2006). It has been suggested that the MAP kinase dependent phosphorylation of FAM129B is important in controlling melanoma cells, as inhibition of B/Raf/MKK/ERK in melanoma cells represses invasion (Old et al., 2009). It is believed that phosphorylated FAM129B not only derepresses invasion, but also regulates events that promote invasion (Old et al., 2009).

**Western blot** of 3T3 cells showing specific immunolabeling of the ~ 83k FAM129B protein phosphorylated at Ser\(^{679/683}\). The phosphospecificity is shown in the second lane where immunoreactivity is blocked by preabsorption with the phospho-peptide (Peptide) used as antigen but not by the dephosphopeptide (not shown).
**Purification Method:** Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns.

**Antibody Specificity:** Specific for the ~83k FAM129B phosphorylated at Ser^{679/683}. Immunolabeling is blocked by preadsorption of antibody with the phospho-peptide that was used to generate the antibody but not by the corresponding dephospho-peptide.

**Quality Control Tests:** Western blots performed on each lot.

**References:**

