

Cat No: Kab00053

Product Particulars: anti-ABL2-antibody

Pack Size: 100µg

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Purify: Immunogen affinity purified

Host: Rabbit

Isotype: IgG

Storage: PBS with 0.02% sodium azide and 50% glycerol pH 7.3 , -20°C for 24 months (Avoid repeated freeze / thaw cycles.)

Background (Function): Non-receptor tyrosine-protein kinase that plays an ABL1- overlapping role in key processes linked to cell growth and survival such as cytoskeleton remodeling in response to extracellular stimuli, cell motility and adhesion and receptor endocytosis. Coordinates actin remodeling through tyrosine phosphorylation of proteins controlling cytoskeleton dynamics like MYH10 (involved in movement); CTTN (involved in signaling); or TUBA1 and TUBB (microtubule subunits). Binds directly F-actin and regulates actin cytoskeletal structure through its F-actin- bundling activity. Involved in the regulation of cell adhesion and motility through phosphorylation of key regulators of these processes such as CRK, CRKL, DOK1 or ARHGAP35. Adhesion-dependent phosphorylation of ARHGAP35 promotes its association with RASA1, resulting in recruitment of ARHGAP35 to the cell periphery where it inhibits RHO. Phosphorylates multiple receptor tyrosine kinases like PDGFRB and other substrates which are involved in endocytosis regulation such as RIN1. In brain, may regulate neurotransmission by phosphorylating proteins at the synapse. ABL2 acts also as a regulator of multiple pathological signaling cascades during infection. Pathogens can hijack ABL2 kinase signaling to reorganize the host actin cytoskeleton for multiple purposes, like facilitating intracellular movement and host cell exit. Finally, functions as its own regulator through autocatalytic activity as well as through phosphorylation of its inhibitor, ABI1.

Immunogen: v-abl Abelson murine leukemia viral oncogene homolog 2 (arg, Abelson-related gene)

Synonyms: Abelson related gene protein, ABL2, ABLL, ARG, FLJ22224, FLJ31718, FLJ41441, Tyrosine protein kinase ABL2, Tyrosine protein kinase ARG

Calculated MW: 127kDa

Uniprot ID: P42684

Specificity: Human, Mouse , Rat

Tested Application: ELISA, WB, IF, IHC, IP

Recommended Dilution: WB :1:500-1:5000; IHC:1:20-1:200; IF:1:10-1:100; IP:1:200-1:2000

Gene ID: 27

Gene Location: Cytoplasm, Cytoskeleton

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