
Anti-Jak 2

Cat #: HM1204
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Jak2 (Janus kinase 2) belongs to the family of non-receptor janus tyrosine kinases, which regulate a spectrum of cellular functions downstream of activated cytokine receptors in the lympho-hematopoietic system. Stimuli, such as interferons and cytokines, induce recruitment of STAT transcription factors to cytokine receptor-associated Jak2. Jak2 then phosphorylates proximal STAT factors, which subsequently dimerize, translocate to the nucleus and bind to cis elements upstream of target gene promoters to regulate transcription. Jak2 is involved in a specific subset of cytokine receptor signaling pathways. It has been found to be constitutively associated with the prolactin receptor and is required for responses to gamma interferon. Mice that do not express an active protein for this gene exhibit embryonic lethality associated with the absence of definitive erythropoiesis.

SPECIFICITY

This antibody specifically recognizes Jak2 of human, mouse and rat origin and can be used in Western blotting, immunoprecipitation and immunostaining.

Recommended dilution for Western blotting: 1:1000.

IMMUNOGEN

Recombinant human Jak2 protein.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

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