

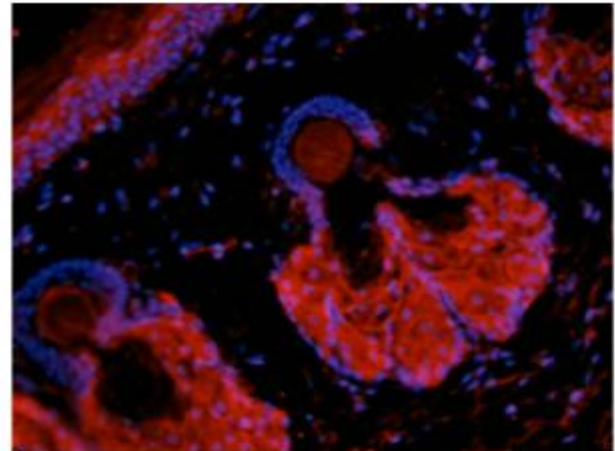


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|----------------------------|---|--------------------|-----------------------------------|
| Catalog Number: | RA14122 | Host: | Rabbit |
| Product Type: | Whole Serum | Species | Human, Mouse, Rat |
| Immunogen Sequence: | TASSSQPLLHDDV | Reactivity: | |
| | | Format: | PBS containing 0.05% sodium azide |
| Applications: | Immunohistochemistry: 1:100-1:400 Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. | | |
| Storage: | Maintain at +2-8°C for 3 months or at -20°C for longer periods. Stable for 1 year. <i>Avoid repeated freeze-thaw cycles.</i> | | |

Application Notes

Description/Data: c-Kit is transmembrane tyrosine kinase encoded by the c-Kit proto oncogene. c-Kit acts to regulate a variety of biological processes including cell proliferation, apoptosis, chemotaxis and adhesion. It plays a critical role in activation and growth in a number of cell types such as hematopoietic stem cells, mast cells, melanocytes and germ cells. Mutations in c-Kit have been found to be important for tumor growth and progression in a variety of cancers including mast cell diseases, gastrointestinal stromal tumor, acute myeloid leukemia, Ewing sarcoma and lung cancer. Phosphorylation at tyrosine 721 of c-Kit allows binding and activation of PI3 kinase.

Image: c-KIT staining of rat skin (epidermis). c-KIT detection was done using anti-rabbit Cy3 conjugated antibodies (red color). DAPI was used to counterstain cell nuclei (blue color). Working dilution: 1:100-1:300.



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