

CD117 / c-Kit (Marker for Gastrointestinal Stromal Tumors) Antibody

Mouse Monoclonal Antibody [Clone KIT/982]

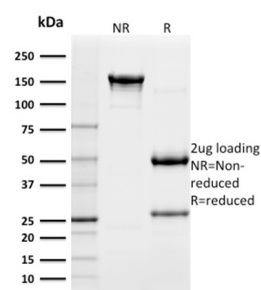
Catalog No	Format	Size
3815-MSM2-P0	Purified Ab with BSA and Azide	200ug/ml
3815-MSM2-P1	Purified Ab with BSA and Azide	200ug/ml
3815-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide	1.0mg/ml

Applications	Tested Dillution
Western Blot (WB)	2-4ug/ml

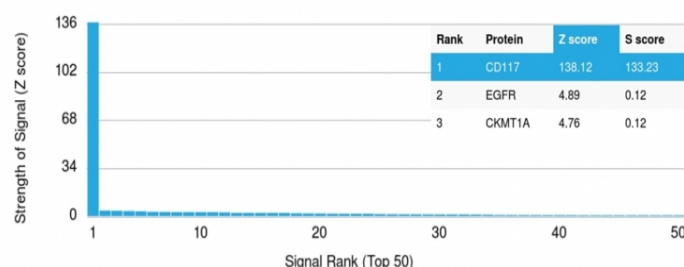
Product Details	
Clone	KIT/982
Gene Name	KIT
Immunogen	Recombinant fragment (around aa100-300) of human CD117 protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	145kDa
Cellular Localization	Cell membrane, Cytoplasm
Species Reactivity	Human
Positive Control	Esophagus, Gastrointestinal Stromal Tumor (GIST) or testicular germ cell tumor. Melanocytes in the basal layer of the epidermis and mast cells in the dermis of normal skin.

*Optimal dilution for a specific application should be determined.

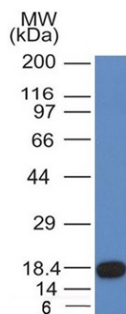
Product Images for CD117 / c-Kit (Marker for Gastrointestinal Stromal Tumors) Antibody



SDS-PAGE Analysis of Purified CD117 Mouse Monoclonal Antibody (KIT/982). Confirmation of Integrity and Purity of Antibody



Analysis of Protein Array containing more than 19,000 full-length human proteins using CD117 Mouse Monoclonal Antibody (KIT/982). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.



Western Blot Analysis of recombinant fragment of CD117 with CD117 Mouse Monoclonal Antibody (KIT/982).

Specificity & Comments

This MAb recognizes a protein of 145kDa, identified as CD117/p145kit. It is found on a wide variety of tumor cells including follicular and papillary carcinoma of thyroid, adenocarcinomas from endometrium, lung, ovary, pancreas, and breast as well as malignant melanoma, endodermal sinus tumor, and small cell carcinoma. However, anti-CD117 has been particularly useful in differentiating gastrointestinal stromal tumors from Kaposi's sarcoma, tumors of smooth muscle origin, fibromatosis, and neural tumors of the GI tract. Anti-CD117 is also useful in recognizing myeloblasts in bone marrow biopsy and clot section.

Research Areas

Breast Cancer, Cancer, Cardiovascular, Gastrointestinal Tract, AKT Signaling, Cardiac Stem Cells, Dendritic Cell Marker, Hematopoietic Stem Cells, Infectious Disease, Mast Cell Marker, Mesenchymal Stem Cell Differentiation, Signal Transduction, Transcription Factors

Known Applications & Suggested Dilutions

Western Blot (1-2ug/ml for 2 hours at RT) | Optimal dilution for a specific application should be determined.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.