

Mouse anti-Human MerTK Monoclonal Antibody | anti-MERTK antibody

MerTK (Innate Immune Checkpoint)

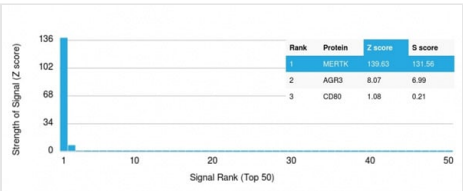
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214881	Mouse	Human	Immunohistochemistry

PRODUCT SYNONYMS

MerTK; Monoclonal Antibody; MerTK (Innate Immune Checkpoint); cEyk; MER receptor tyrosine kinase; MERK; MERPEN; nmf12; Nyk; Proto-oncogene c-Mer; RP38; STK kinase; anti-MERTK antibody

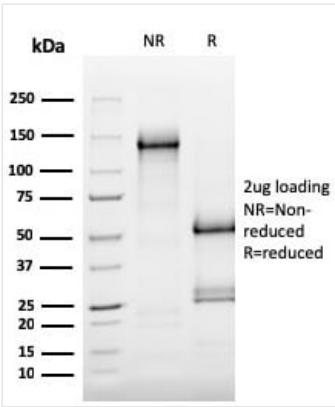
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	MERTK/3015
Specificity	MerTK, also called c-Mer, is a member of the Mer/Axl/Tyro3 receptor kinase family. It is a 984 residue transmembrane protein made up of one tyrosine kinase domain, two Fibronectin type-III domains and two immunoglobulinlike C2-type domains. MerTK is the mammalian ortholog of the chicken retroviral oncogene product v-Eyk. This protein plays a critical role in macrophage activation, platelet aggregation, clot stability and the efficient removal of apoptotic cells. Specifically, MerTK acts as a signaling molecule, triggering outer segment ingestion in the retinal pigment epithelium (RPE) phagocytic process. Evidence suggests that MerTK signals via interaction with phosphatidylinositol-specific phospholipase C 2). When the gene encoding for MerTK is mutated, the RPE phagocytosis pathway is disrupted and autosomal recessive retinitis pigmentosa (RP) may result, leading to degeneration of retinal photoreceptor cells.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	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.
Sequence Length	999
Applicable Applications for anti-MERTK antibody	IHC (Immunohistochemistry)
Positive Control	Human colon tissue (IHC).
Immunogen	Recombinant human MERTK protein fragment (around aa 55-148) (exact sequence is proprietary)
Cellular Localization	Cell Surface.
Hu-chromosome Location	2q13
Human Unigene	306178
Preparation and Storage	Antibody with azide: store at 2 to 8°C. Antibody without azide: store at -20 to -80°C. Non-hazardous. No MSDS required.



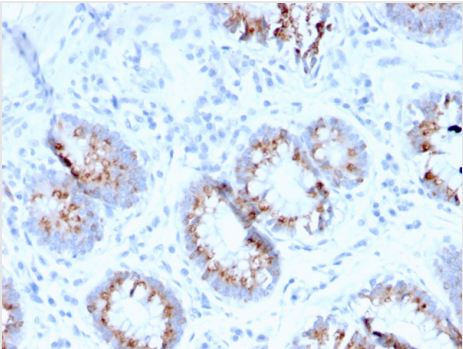
Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using MerTK Mouse Monoclonal Antibody (MERTK/3015). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM 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 HuProtTM 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 MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb 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 MAb to protein X is equal to 29.

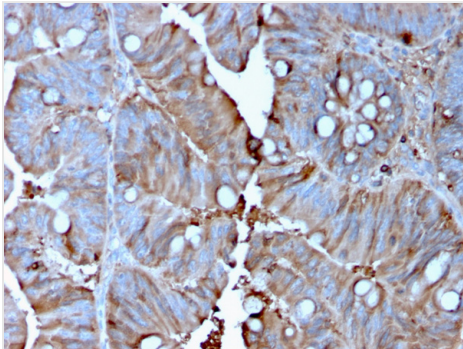


SDS-PAGE

SDS-PAGE Analysis Purified MerTK Mouse Monoclonal Antibody (MERTK/3015). Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Colon stained with MerTK Mouse Monoclonal Antibody (MERTK/3015).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with MerTK Mouse Monoclonal Antibody (MERTK/3015).

ADDITIONAL INFORMATION

References	Akalu Y.T., et al. TAM receptor tyrosine kinases as emerging targets of innate immune checkpoint blockade for cancer therapy. Immunol Rev. 2017 Mar;276(1):165-177.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	66932918
NCBI GeneID	10461
NCBI Accession #	NP_006334.2
NCBI GenBank Nucleotide #	NP_006334.2
UniProt Accession #	Q12866
Molecular Weight	110kDa
NCBI Official Full Name	tyrosine-protein kinase Mer
NCBI Official Synonym Full Names	MER proto-oncogene, tyrosine kinase
NCBI Official Symbol	MERTK
NCBI Official Synonym Symbols	MER; RP38; c-Eyk; c-mer; Tyro12
NCBI Protein Information	tyrosine-protein kinase Mer

UniProt Protein Name	Tyrosine-protein kinase Mer
UniProt Gene Name	MERTK
UniProt Synonym Gene Names	MER
UniProt Entry Name	MERTK_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/mertk-antibody-clone-mertk-3015-immunohistochemistry-elisa/214881>