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Datasheet for ABIN3031877
anti-MUSK antibody (AA 35-65)

6 Images

Overview

Quantity:	0.4 mL
Target:	MUSK
Binding Specificity:	AA 35-65
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MUSK antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Immunogen:	A portion of amino acids 35-65 from the human protein was used as the immunogen for this MUSK antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Mouse, Rat
Purification:	Purified

Target Details

Target:	MUSK
Alternative Name:	MUSK (MUSK Products)
Background:	Protein kinases are enzymes that transfer a phosphate group from a phosphate donor,

Target Details

generally the γ phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The tyrosine kinase (TK) group is mainly involved in the regulation of cell-cell interactions such as differentiation, adhesion, motility and death. There are currently about 90 TK genes sequenced, 58 are of receptor protein TK (e.g. EGFR, EPH, FGFR, PDGFR, TRK, and VEGFR families), and 32 of cytosolic TK (e.g. ABL, FAK, JAK, and SRC families).

UniProt: [O15146](#)

Pathways: [RTK Signaling](#), [Regulation of Muscle Cell Differentiation](#), [Synaptic Membrane](#), [Regulation of Cell Size](#), [Skeletal Muscle Fiber Development](#)

Application Details

Application Notes: Titration of the MUSK antibody may be required due to differences in protocols and secondary/substrate sensitivity. Western blot: 1:1000, Flow Cytometry: 1:10-1:50, IHC (Paraffin): 1:10-1:50

Restrictions: For Research Use only

Handling

Format: Liquid

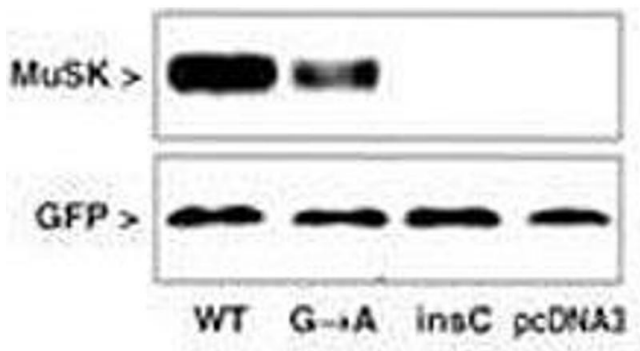
Buffer: In 1X PBS pH 7.4 with 0.09 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

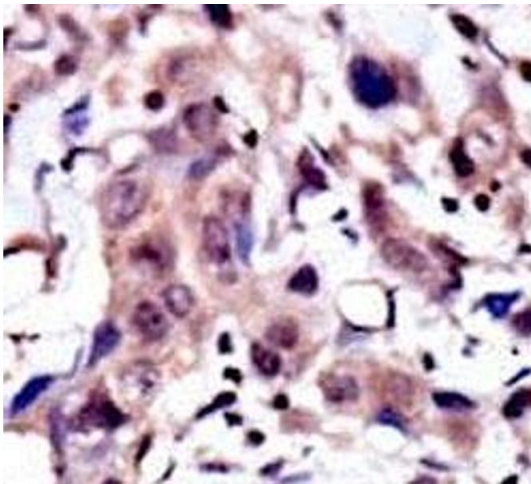
Storage: -20 °C

Storage Comment: Aliquot the MUSK antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



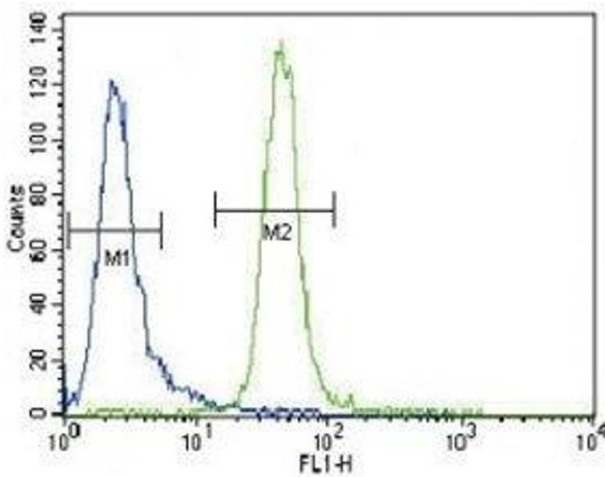
Western Blotting

Image 1. Western blot testing of COS cells after transfection with MUSK mutated and GFP (control) with MUSK antibody. Expression was normal in wild-type (WT), diminished in the GA mutant and no expression with the insC mutant or the pcDNA3 vector alone.



Immunohistochemistry

Image 2. IHC analysis of FFPE human breast carcinoma tissue stained with the MUSK antibody



Flow Cytometry

Image 3. MUSK antibody flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN3031877.