

Protein Kinase C iota / lambda / PRKCI Antibody

Mouse Monoclonal Antibody [Clone PRKCI/4912]

Catalog No	Format	Size
5584-MSM2-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5584-MSM2-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5584-MSM2-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

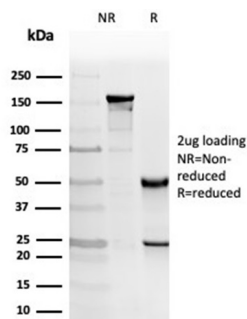
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

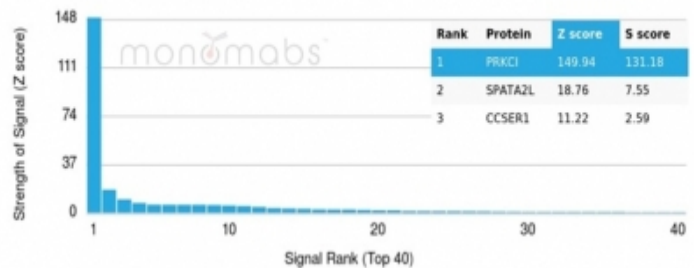
Clone	PRKCI/4912
Gene Name	PRKCI
Immunogen	Recombinant fragment (around aa100-300) of human PRKCI protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	68kDa
Cellular Localization	Cytoplasm, Endosome, Membrane, Nucleus
Species Reactivity	Human
Positive Control	Brain, Liver or placenta.

*Optimal dilution for a specific application should be determined.

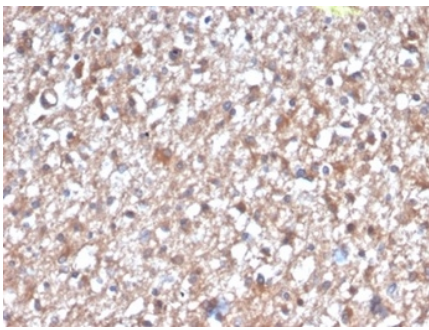
Product Images for Protein Kinase C iota / lambda / PRKCI Antibody



SDS-PAGE Analysis of Purified PRKCI Mouse Monoclonal Antibody (PRKCI/4912). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteins using Protein Kinase C iota / lambda Mouse Monoclonal Antibody (PRKCI/4912). 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 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 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.



Formalin-fixed, paraffin-embedded human brain stained with Protein Kinase C iota / lambda Mouse Monoclonal Antibody (PRKCI/4912).

Specificity & Comments

Members of the protein kinase C (PKC) family play a key regulatory role in a variety of cellular functions, including cell growth and differentiation, gene expression, hormone secretion and membrane function. PKCs were originally identified as serine/threonine protein kinases whose activity was dependent on calcium and phospholipids. Diacylglycerols (DAG) and tumor promoting phorbol esters bind to and activate PKC. PKCs can be subdivided into at least two major classes, including conventional (c) PKC isoforms (α , β , γ and δ) and novel (n) PKC isoforms (ϵ , ζ , η , θ , ν , ξ , μ and σ). Patterns of expression for each PKC isoform differ among tissues and PKC family members exhibit clear differences in their cofactor dependencies. For instance, the kinase activities of PKC α and δ are independent of Ca^{2+} . On the other hand, most of the other PKC members possess phorbol ester-binding activities and kinase activities.

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.

Research Areas

Cardiovascular, Complement System, Signal Transduction
