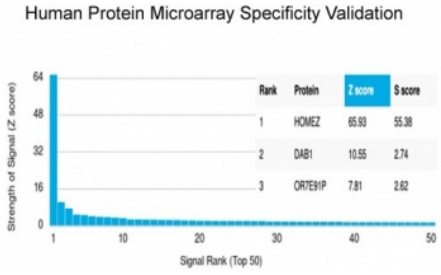
HOMEZ Antibody [clone PCRP-HOMEZ-1B5] (V9211)

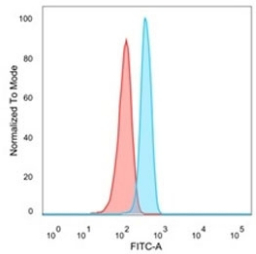
Catalog No.	Formulation	Size
V9211-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9211-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9211SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

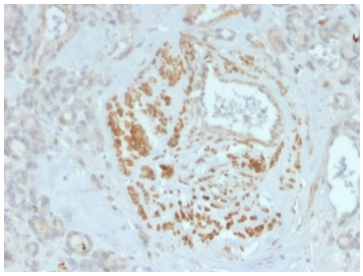
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	PCRP-HOMEZ-1B5
Purity	Protein A/G affinity
UniProt	Q8IX15
Localization	Nucleus
Applications	Flow Cytometry : 1-2ug/million cells Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This HOMEZ antibody is available for research use only.



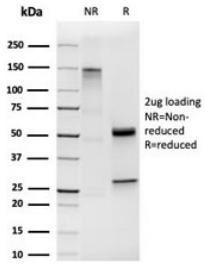
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using HOMEZ antibody (clone PCRP-HOMEZ-1B5). These results demonstrate the foremost specificity of the PCRP-HOMEZ-1B5 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



FACS staining of PFA-fixed human HeLa cells with HOMEZ antibody (blue, clone PCRP-HOMEZ-1B5), and isotype control (red).



IHC staining of FFPE human breast tissue with HOMEZ antibody (clone PCRP-HOMEZ-1B5). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free HOMEZ antibody (clone PCRP-HOMEZ-1B5) as confirmation of integrity and purity.

Description

Homeodomain-containing proteins function as transcription factors that typically switch on cascades of other genes. Usually homeodomain proteins act in the promoter region of their target genes as complexes with other transcription factors, leading to much higher target specificity than a single homeodomain protein. HOMEZ (Homeobox and leucine zipper protein) is a 525 amino acid nuclear protein that contains 3 atypical homeodomains, 2 leucine zipper-like motifs, proline and serine-rich motifs and an acidic domain. Within homeodomain 2, it contains a putative nuclear localization signal. HOMEZ shares significant sequence similarity with mouse ZHX1 and sequences that are homologous to HOMEZ are restricted to vertebrates. Likely functioning as a transcription regulator, HOMEZ is ubiquitously expressed with highest levels found in in ovary, testis, kidney, fetal lung and kidney.

Application Notes

Optimal dilution of the HOMEZ antibody should be determined by the researcher.

Immunogen

Recombinant full-length human HOMEZ protein was used as the immunogen for the HOMEZ antibody.

Storage

Aliquot the HOMEZ antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.