

Product Datasheet

HOMEZ Antibody (orb2636891)

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.
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	FACS, IHC-P
Immunogen	Recombinant full-length human HOMEZ protein was used as the immunogen for the HOMEZ antibody.
Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced), 0.05% sodium azide
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	Optimal dilution of the HOMEZ antibody should be determined by the researcher.
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide
Isotype	Mouse IgG2a

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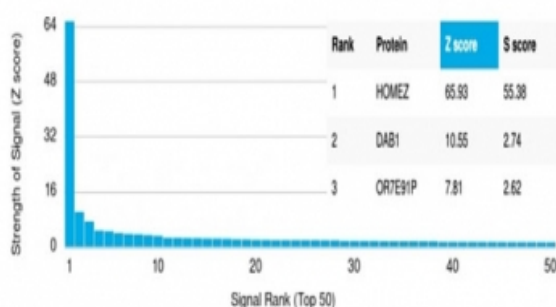
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Clonality	Monoclonal
Clone Number	PCRP-HOMEZ-1B5
Antibody Type	Primary Antibody
Purity	Protein A/G affinity
Uniprot ID	Q8IX15
Hazard Information	This HOMEZ antibody is available for research use only.
Dilution Range	Flow cytometry: 1-2ug/million cells,Immunohistochemistry (FFPE): 1-2ug/ml
Expiration Date	12 months from date of receipt.

Human Protein Microarray Specificity Validation



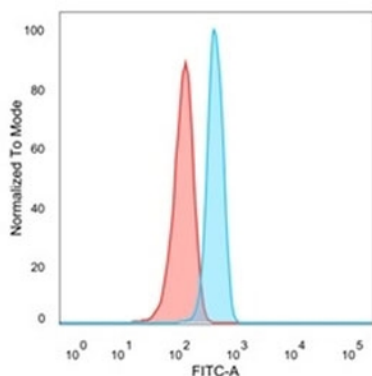
Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using HOMEZ antibody (clone PCRP-HOMEZ-1B5). These results demonstrate the foremost specificity of the PCRP-HOMEZ-1B5 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination 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.

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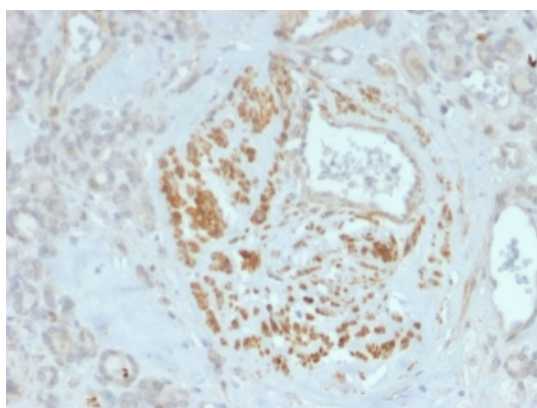
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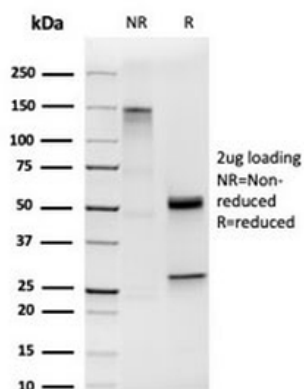
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FACS staining of PFA-fixed human HeLa cells with HOMEZ antibody (blue, clone PCRP-HOMEZ-1B5), and isotype control (red).



IHC staining of FFPE human breast tissue with HOMEZ antibody (clone PCRP-HOMEZ-1B5). HIER: boil tissue sections in pH9 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.

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