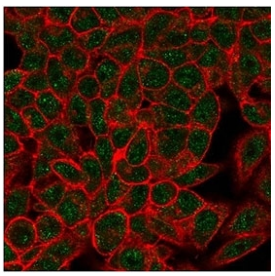
Myf-4 Antibody / MYOG / Myogenin [clone PCRP-MYOG-1C5] (V9684)

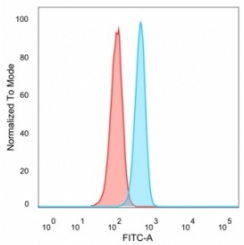
Catalog No.	Formulation	Size
V9684-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9684-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9684SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

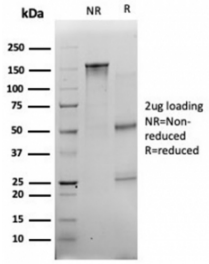
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	PCRP-MYOG-1C5
Purity	Protein A/G affinity
UniProt	P15173
Localization	Nucleus
Applications	ELISA (order BSA-free Format For Coating) : Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml
Limitations	This Myf-4 antibody is available for research use only.



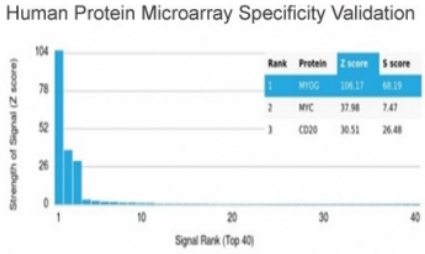
Immunofluorescent staining of PFA-fixed human HeLa cells using Myf-4 antibody (green, clone PCRP-MYOG-1C5) and phalloidin (red).



FACS staining of PFA-fixed human HeLa cells with Myf-4 antibody (blue, clone PCRP-MYOG-1C5) and isotype control (red).



SDS-PAGE analysis of purified, BSA-free Myf-4 antibody (clone PCRP-MYOG-1C5) as confirmation of integrity and purity.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Myf-4 antibody (clone PCRP-MYOG-1C5). These results demonstrate the foremost specificity of the PCRP-MYOG-1C5 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.

Description

Myogenin is a member of the MyoD family of myogenic basic helix-loop-helix (bHLH) transcription factors that also includes MyoD, Myf-5, and MRF4 (also known as herculinor Myf-6). MyoD family members are expressed exclusively in skeletal muscle and play a key role in activating myogenesis by binding to enhancer sequences of muscle-specific genes. The regulatory domain of MyoD is approximately 70 amino acids in length and includes both a basic DNA binding motif and a bHLH dimerization motif.MyoD family members share about 80% amino acid homology in their bHLH motifs.Anti-myogenin labels the nuclei of myoblasts in developing muscle tissue, and is expressed in tumor cell nuclei of rhabdomyosarcoma and some leiomyosarcomas. Positive nuclear staining may occur in Wilms tumor.

Application Notes

Optimal dilution of the Myf-4 antibody should be determined by the researcher.

Immunogen

Human recombinant protein was used as the immunogen for the Myf-4 antibody.

Storage

Aliquot the Myf-4 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.