Antibody Validation Report

aVR.CDKN1A.P38936.AB_10984461.v2.1 (November 3_2020)

A. Basic Target Information

Target Information

UniProt Accession Number: P38936
Target Name: Cyclin-dependent kinase inhibitor 1 (p21)

Antibody Information

RRID: AB_10984461
Antibody Name: p21 Antibody (R.229.6)
Host Organism: Rabbit
Clonality: Monoclonal
Vendor: Thermo
Catalog Number: MA5-14949
Lot Number: VJ3094242
Recombinant (Y/N): No

Organ/Tissue used for validation: MCF7 Cell Line
HuBMAP Platform Used: IP-MS
Protocols.io doi for Validation Protocol: 10.17504/protocols.io.bq9pmz5n
ORCID ID of submitter: 0000-0002-5631-512X

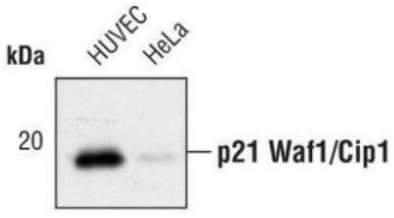
B. Validation Data

B.1. Vendor Validation: IP, WB, IF, IHC, IHC(P), FC

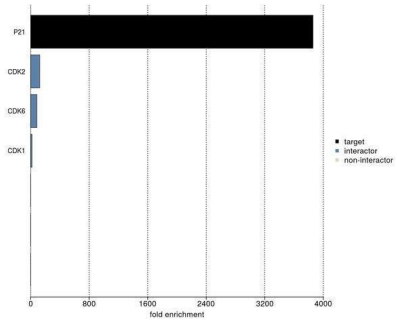
Date Accessed: 03/26/20

URL: https://www.thermofisher.com/antibody/product/p21-Antibody-clone-R-229-6-Monoclonal/MA5-14949

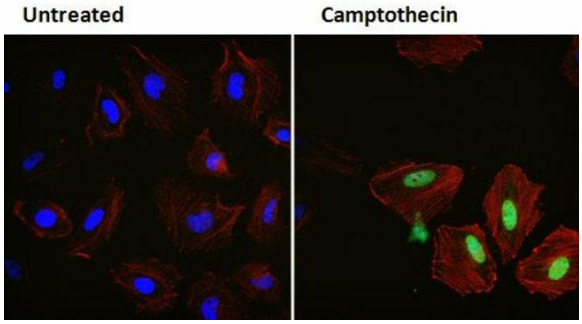
Western Blot



Immunoprecipitation and Mass Spectrometry



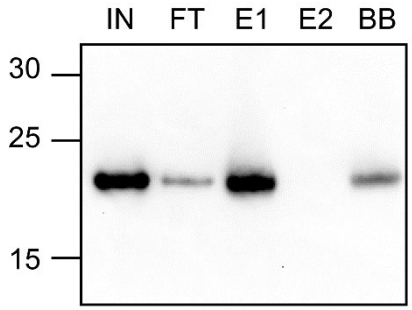
Immunofluorescence



IHC

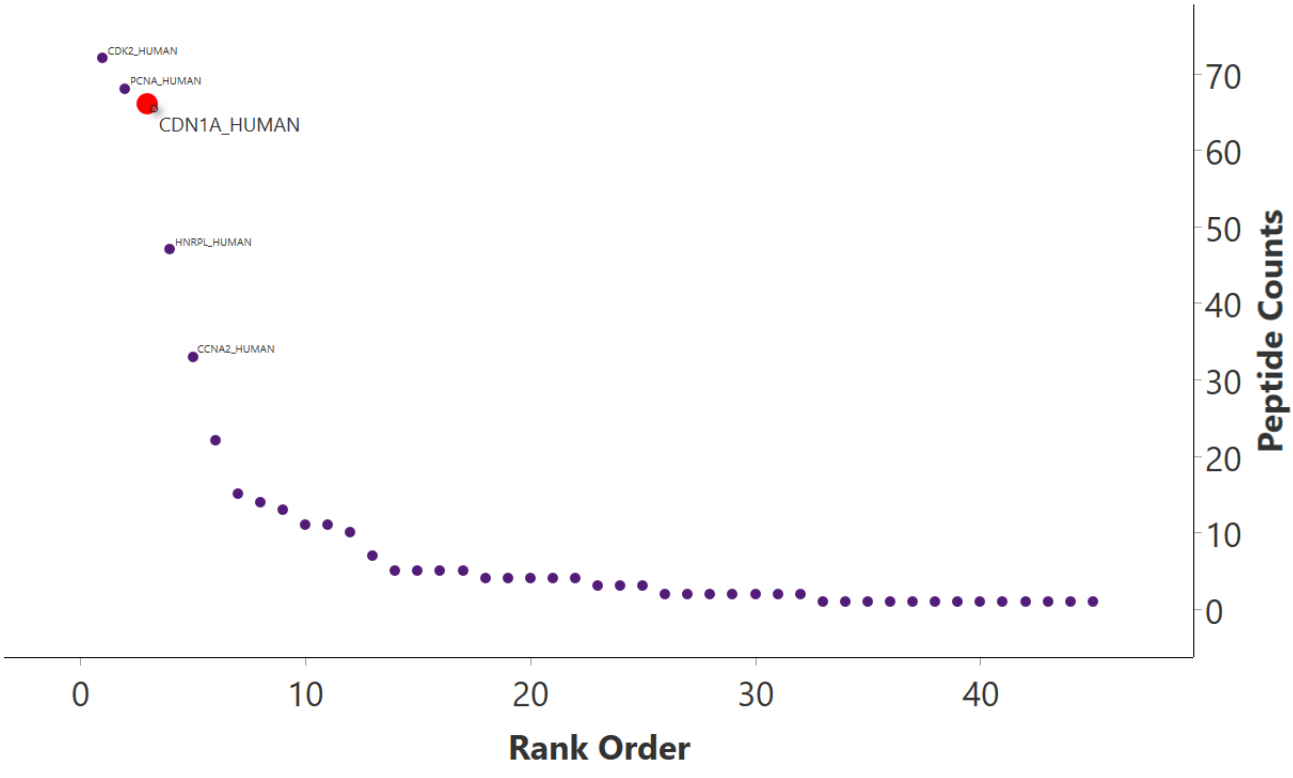
B.2. Laboratory Validation:

Immunoprecipitation/Western Blot



IP from MCF7 cells treated with 5 µM nutlin-3a

Immunoprecipitation/Bottom-Up MS



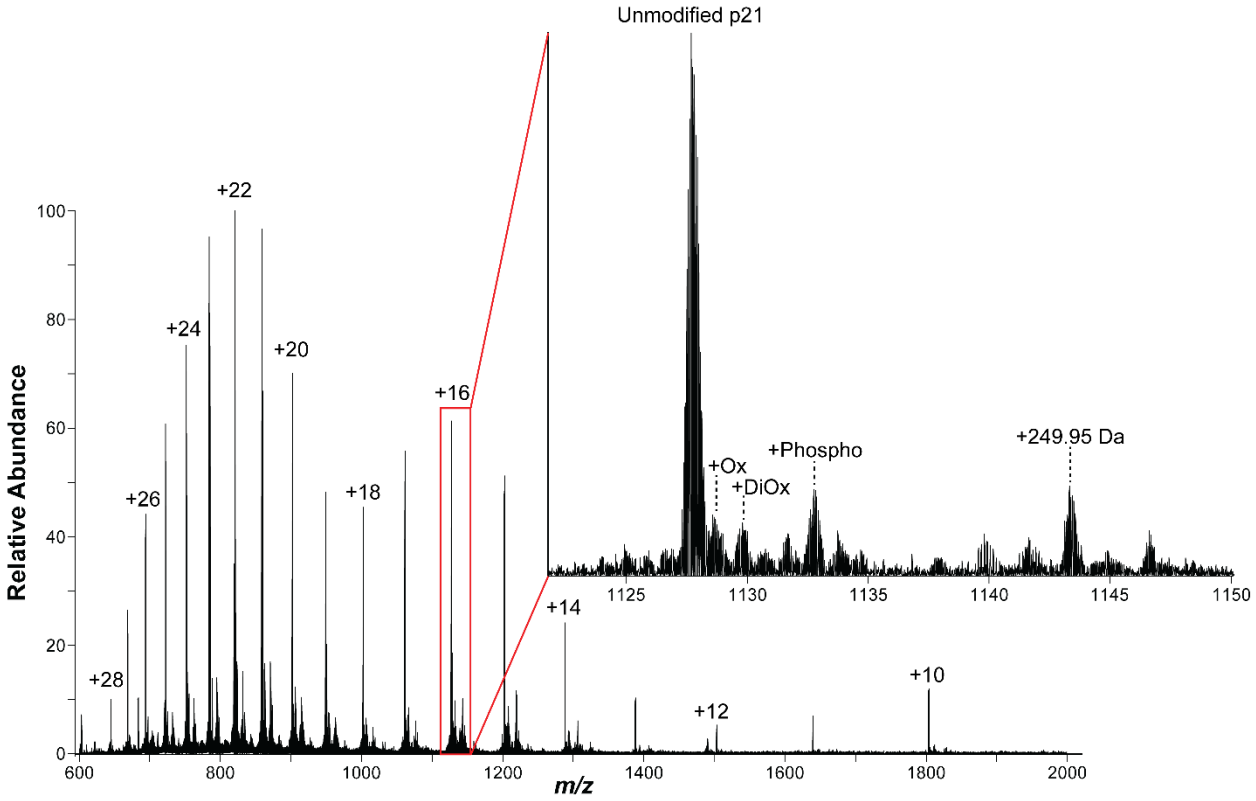
Immunoprecipitation/Top-Down MS

Proteoforms Identified:

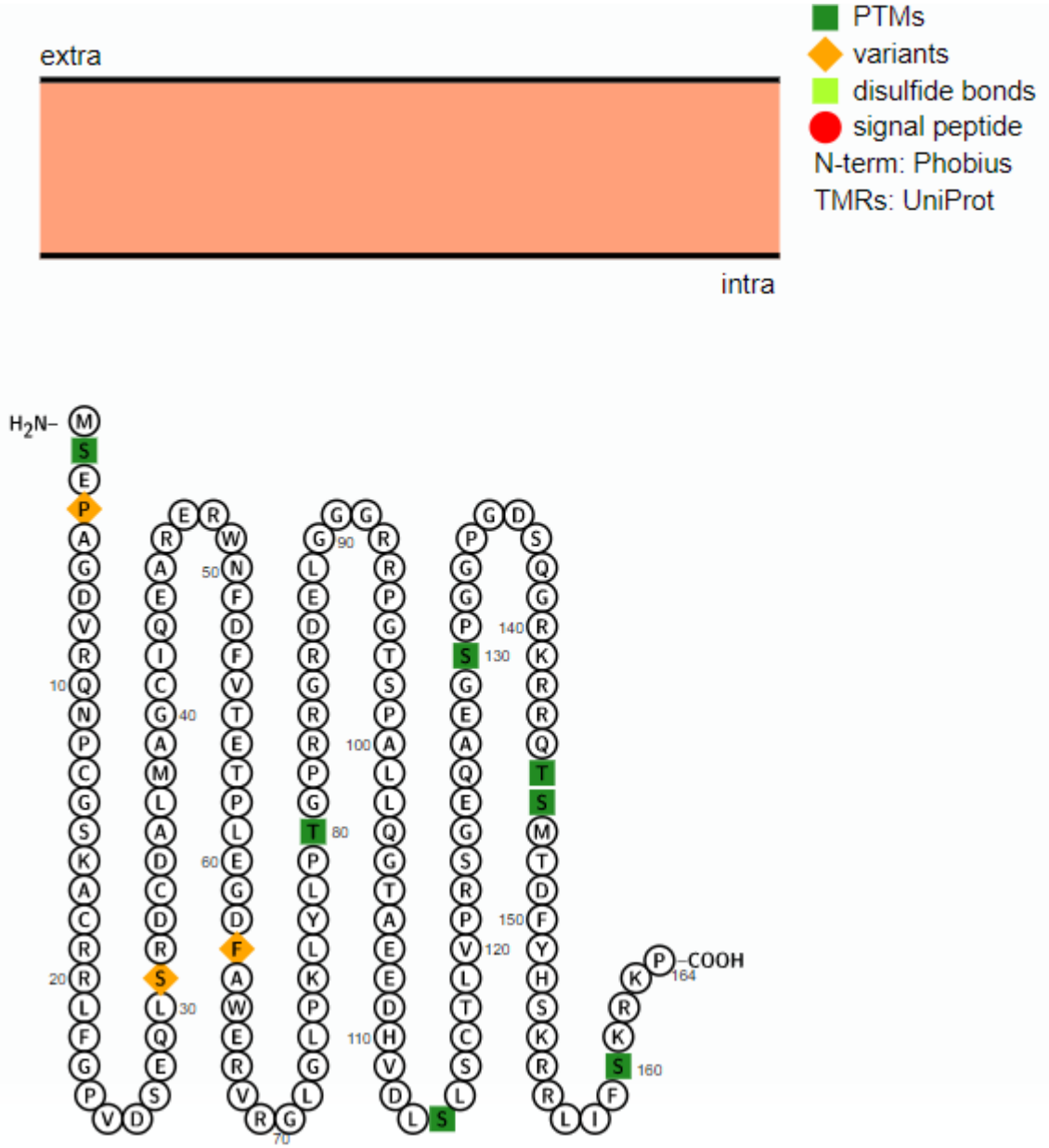
1: PFR465238, p21 Unmodified, 18,018.94 Da, [Acetyl]-
SEPAGDVRQNPCGSKACRRLFGPVDSEQLSRDCDALMAGCIQEARERWNFDFVTETPLEGDF
AWERVRGLGLPKLYLPTGPRRGRDELGGGRRPGTSPALLQGTAEEDHVDLSLSCTLVPRSGE
QAEGSPGGPGDSQGRKRRQTSMTDFYHSKRRLIFSKRKP

2: PFR599687, p21 Phosphorylated, 18,098.91 Da, [Acetyl]-
SEPAGDVRQNPCGSKACRRLFGPVDSEQLSRDCDALMAGCIQEARERWNFDFVTETPLEGDF
AWERVRGLGLPKLYLPTGPRRGRDELGGGRRPGTSPALLQGTAEEDHVDLS[Phospho]LSCTL
VPRSGEQAEGSPGGPGDSQGRKRRQTSMTDFYHSKRRLIFSKRKP

Intact Mass Profile



Protter (Omasits et al., Bioinformatics. 2013 Nov 21)



Supporting Information:

Unmodified

Phosphorylated