

## Product Datasheet

### ID1 Antibody / DNA binding protein inhibitor ID-1 (orb2637163)

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>         | Members of the Id family of basic helix-loop-helix (bHLH) proteins include Id1, Id2, Id3 and Id4. They are ubiquitously expressed and dimerize with members of the class A and B HLH proteins. Due to the absence of the basic region, the resulting heterodimers cannot bind DNA. The Id-type proteins thus appear to negatively regulate DNA binding of bHLH proteins. Since Id1 inhibits DNA binding of E12 and Myo D, it apparently functions to inhibit muscle-specific gene expression. |
| <b>Species/Host</b>        | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Reactivity</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Conjugation</b>         | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Tested Applications</b> | ELISA, FACS, IF                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Immunogen</b>           | A portion of amino acids 5-150 was used as the immunogen for the ID1 antibody.                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Preservatives</b>       | 0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced), 0.05% sodium azide                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage</b>             | 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.                                                                                                                                                                                                                                                                                                                                                       |
| <b>Note</b>                | For research use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Application notes</b>   | Optimal dilution of the ID1 antibody should be determined by the researcher.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Formula</b>             | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Isotype</b>             | Mouse IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Clonality</b>           | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Clone Number</b>        | PCRP-ID1-2F11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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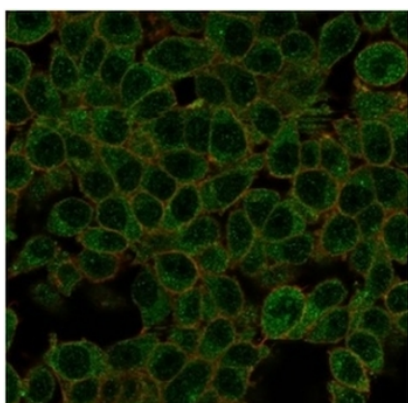
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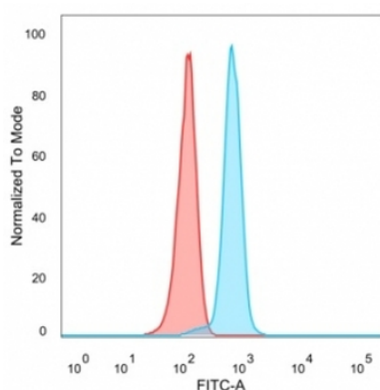
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|                           |                                                                                                            |
|---------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Antibody Type</b>      | Primary Antibody                                                                                           |
| <b>Purity</b>             | Protein A/G affinity                                                                                       |
| <b>Uniprot ID</b>         | <b>P41134</b>                                                                                              |
| <b>Hazard Information</b> | This ID1 antibody is available for research use only.                                                      |
| <b>Dilution Range</b>     | ELISA (order BSA-free format for coating),Flow cytometry: 1-2ug/million cells,Immunofluorescence: 1-2ug/ml |
| <b>Expiration Date</b>    | 12 months from date of receipt.                                                                            |



Immunofluorescent staining of PFA-fixed human HeLa cells using ID1 antibody (green, clone PCRP-ID1-2F11) and phalloidin (red).



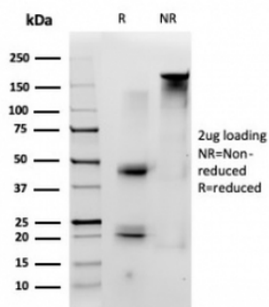
FACS staining of PFA-fixed human HeLa cells with ID1 antibody (blue, clone PCRP-ID1-2F11) and isotype control (red).

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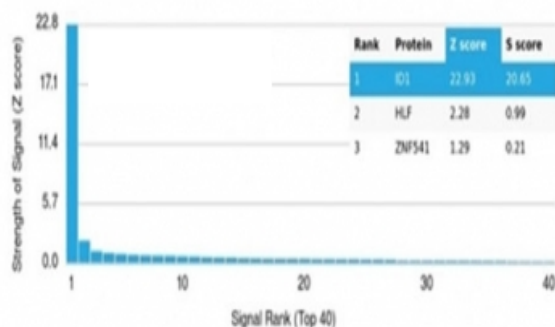
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SDS-PAGE analysis of purified, BSA-free ID1 antibody (clone PCRP-ID1-2F11) as confirmation of integrity and purity.

#### Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using ID1 antibody (clone PCRP-ID1-2F11). These results demonstrate the foremost specificity of the PCRP-ID1-2F11 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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