## OriGene Technologies, Inc.



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## SM2036PS Monoclonal Antibody to CD158 / KIR2D - Aff - Purified

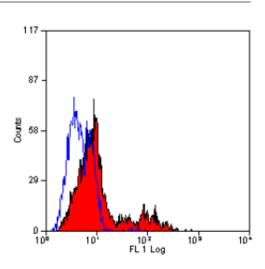
| Alternate names:  | CD158a, CD158b, CD158i, KI2DL1, KILLER CELL Immunoglobin-Like Receptors, KIR2DL3,<br>KIR2DS4  |
|-------------------|---|
| Quantity:         | 0.1 mg  |
| Concentration:    | 1.0 mg/ml   |
| Background:       | KIR2D family members are cell surface glycoproteins with two Ig domains, which are expressed on natural killer cells and some T cells.  |
| Host / Isotype:   | Mouse / IgG1  |
| Clone:            | NKVFS1  |
| Format:           | <b>State:</b> Liquid purified IgG<br><b>Purification:</b> Affinity chromatography on Protein G<br><b>Buffer System:</b> PBS, pH7.4 containing 0.09% Sodium Azide  |
| Applications:     | Flow Cytometry: 1/50 - 1/100; Use 10µl of the suggested working dilution to label 10e6<br>cells in 100µl.<br>ELISA.<br>Immunoprecipitation.<br>Western Blot.<br>Other applications not tested. Optimal dilutions are dependent on conditions and  |
|                   | should be determined by the user.   |
| Specificity:      | This antibody recognises KIR2D members of the killer cell immunoglobulin (lg)-like<br>receptor (KIR) family, CD158a, CD158b and P50.3 (CD158l). Clone NKVFS1 specifically<br>recognises the long and short forms CD158a and CD158b (KIR2DL, KIR2DS1 and<br>KIR2DS2 respectively) and also p50.3 (KIR2DS4). The clone is reported to have<br>functional activity, activating NK cell cytotoxicity via KIR2DS and inhibiting via KIR2DL<br>forms. We recommend the use of SM2036A for this purpose.<br><b>Species:</b> Human.<br>Other species not tested.  |
| Storage:          | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for<br>longer.<br>Avoid repeated freezing and thawing.<br>Shelf life: one year from despatch.   |
| General Readings: | <ol> <li>Spaggiari GM, Contini P, Carosio R, Arvigo M, Ghio M, Oddone D, et al. Soluble HLA<br/>class I molecules induce natural killer cell apoptosis through the engagement of CD8:<br/>evidence for a negative regulation exerted by members of the inhibitory receptor<br/>superfamily. Blood. 2002 Mar 1;99(5):1706-14. PubMed PMID: 11861287.</li> <li>Spaggiari GM, Contini P, Dondero A, Carosio R, Puppo F, Indiveri F, et al. Soluble<br/>HLA class I induces NK cell apoptosis upon the engagement of killer-activating HLA<br/>class I receptors through FasL-Fas interaction. Blood. 2002 Dec 1;100(12):4098-107.</li> <li>Epub 2002 Jul 18. PubMed PMID: 12393468.</li> </ol> |

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.



**Pictures:** 

Staining of human peripheral blood lymphocytes with mouse anti-human KIR/KIR2D antibody Cat.-No. SM2036PS.



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