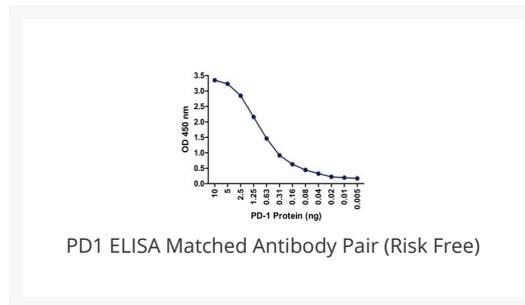




PD1 ELISA Matched Antibody Pair (Risk Free)

Cat. No.: RFP-0003



Ψ Specifications

HOST SPECIES:	Mouse
SPECIES REACTIVITY:	Human
IMMUNOGEN:	PD-1 antibodies were raised against the extracellular domain of human PD-1.
TESTED APPLICATIONS:	ELISA

Ψ Properties

PURIFICATION:	Antibodies are supplied as protein A purified IgG1.
CLONALITY:	Monoclonal
ISOTYPE:	IgG1
PHYSICAL STATE:	Liquid
BUFFER:	PBS containing 0.02% sodium azide.
CONCENTRATION:	Antibody 1 mg/mL
STORAGE CONDITIONS:	Antibodies can be stored at 4 °C for three months and -20 °C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
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Background and References

BACKGROUND:	<p>Cell-mediated immune responses are initiated by T lymphocytes that are themselves stimulated by cognate peptides bound to MHC molecules on antigen-presenting cells (APC). T-cell activation is generally self-limited as activated T cells express receptors such as PD-1 (also known as PDCD-1) that mediate inhibitory signals from the APC. PD-1 can bind two different but related ligands, PDL-1 and PDL-2. Upon binding to either of these ligands, signals generated by PD-1 inhibit the activation of the immune response in the absence of "danger signals" such as LPS or other molecules associated with bacteria or other pathogens. Evidence for this is seen in PD-1-null mice who exhibit hyperactivated immune systems and autoimmune diseases. PD-1 is thus one of a growing number of immune checkpoint proteins. ProSci's Risk-Free™ antibodies are mouse monoclonal antibodies made to improve in vivo studies. Unlike antibodies developed using proteins made in yeast or bacteria, Risk-Free™ antibodies are developed with antigens expressed in mammalian cell lines, giving the most native post-translational modifications to the protein. Validated for flow cytometry and ELISA Rigorously tested for the following applications: Immunoblot Immunohistochemistry Immunocytochemistry Immunofluorescence Multiple antibodies per target allowing the user to choose the best antibody for their application Available individually or as a set Risk-Free™ means they are guaranteed to work for their approved applications</p>
REFERENCES:	<p>1) Holling TM, Schooten E, and van Den Elsing PJ. Function and regulation of MHC class II molecules in T-lymphocytes: of mice and men. Hum. Immunol. 2004; 65:282-90.</p> <p>2) Ishida Y, Agata Y, Shibahara K, et al. Induced expression of PD-1, a novel member of the immunoglobulin gene superfamily, upon programmed cell death. EMBO J. 1992; 11:3887-95.</p> <p>3) Zhong X, Bai C, Gao W, et al. Suppression of expression and function of negative immune regulator PD-1 by certain pattern recognition and cytokine receptor signals associated with immune system danger. Int. Immunol. 2004; 16:1181-8.</p> <p>4) Nishimura H, Nose M, Hiai H, et al. Development of lupus-like autoimmune diseases by the disruption of the PD-1 gene encoding an ITIM motif-carrying immunoreceptor. Immunity 1999; 11:141-51.</p>

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