

## IVMB0454

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### Product Information

<b>Product SKU:</b> IVMB0454	<b>Clone:</b> MDX-010	<b>Target:</b> CTLA-4
<b>Size:</b> 100 µg		<b>Isotype:</b> Human IgG1k

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### Additional Information

<b>Reactivity:</b> Human	<b>Host Species:</b> Human
<b>Antibody Type:</b> Biosimilar Recombinant Human Monoclonal Antibody	<b>Expression Host:</b> HEK-293 Cells

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### Immunogen Information

**Background:** Cytotoxic T-lymphocyte-associated antigen 4 (CTLA-4) is a protein receptor that serves as an immune checkpoint and down-regulates the immune system. CTLA-4 is constitutively expressed in regulatory T cells but is only upregulated in conventional T cells following activation. Many cancers, including Melanoma, are associated with CTLA-4 upregulation because the body's ability to recognize and destroy cancer cells is hampered by an inhibitory mechanism. Ipilimumab targets CTLA-4 and works by turning off this inhibitory mechanism and, thus, enhances the body's own immune response against cancer cells.<sup>2</sup> Emerging research suggests that combined blockade of PD-1 and CTLA-4, with Nivolumab and Ipilimumab respectively, could produce greater antitumor activity than blockade of either pathway alone.<sup>1</sup> This cost-effective, research-grade Anti-Human CTLA-4 (Ipilimumab) utilizes the same variable regions from the therapeutic antibody Ipilimumab making it ideal for research projects.

**Product Concentration:** 0.5 mg/ml

**Applications:** ELISA

**Synonyms:** CD; GSE; GRD4; ALPS5; CD152; CTLA-4; IDDM12; CELIAC3

**Antigen Distribution:** CTLA4 is constitutively expressed in regulatory T cells.

**Immunogen:** Human CTLA-4

**Contact Details | Dublin, Ireland**

**Email:** [techsupport@assaygenie.com](mailto:techsupport@assaygenie.com) | **Web:** [www.assaygenie.com](http://www.assaygenie.com)

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- Formulation:** This HRP-conjugated antibody is formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4, 1% BSA. **(Warning: Use of sodium azide as a preservative will inhibit the enzyme activity of horseradish peroxidase)**
- Specificity:** This non-therapeutic biosimilar antibody uses the same variable region sequence as the therapeutic antibody Ipilimumab. Ipilimumab binds to Human CTLA-4. This product is for research use only.
- Pathogen Testing:** -
- Storage & Handling:** This horseradish peroxidase conjugated monoclonal antibody is stable when stored at 2-8°C. Do not freeze.