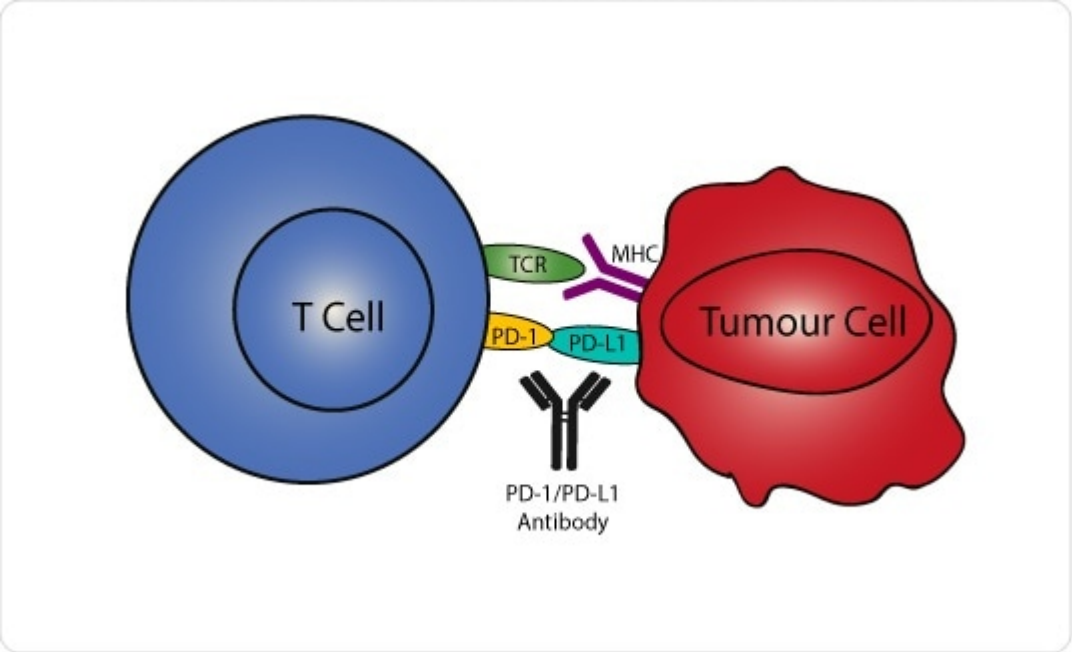
# AMSBIO launches new cell lines and controls for PD-1 research

Published on June 24, 2016 at 9:51 AM

AMSBIO has introduced new cell lines and controls for Programmed Cell Death Protein 1 (PD-1) research, and to test inhibitors of the PD-1 / PD-L1 pathway.




The binding of PD-1, a receptor expressed on activated T-cells, to its ligands (PD-L1 and PD-L2) negatively regulates immune responses. PD-1 ligands are highly expressed in many cancers, and their interaction inhibits T-cell activity allowing cancer cells to escape immune surveillance. The PD-1: PD-Ligands pathway is also involved in regulating autoimmune responses, making these proteins promising therapeutic targets for a number of cancers, as well as multiple sclerosis, arthritis, lupus, and type I diabetes.

A PD-1 / NFAT Reporter - Jurkat Cell Line is now available for applications including screening for activators or inhibitors of PD-1 signaling in a cellular context and also for characterizing the biological activity of PD-1 and its interactions with ligands.

AMSBIO has also introduced the accompanying TCR activator / PD-L1 - CHO Recombinant Cell line that is purpose designed for screening for activators or inhibitors of PD-1 signaling as well as screening PD-L1 antibodies for their binding affinity.

The functionality of the cell lines was validated using a PD-1:PD-L1 cell-based assay and expression of human PD-1 or PD-L1 in the cell lines was confirmed by Western blotting.

AMSBIO offers a wide range of purified, soluble immunoreceptors involved in key immunosignaling pathways. Additionally, the company offer a number of assay kits that can be used to screen for inhibitors of protein-protein interaction, as well as neutralizing antibodies to serve as positive controls for inhibition.

Source:
http://www.amsbio.com/

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**Company Background**

AMSBIO is a premier provider of quality life science research reagents and services helping customers develop innovative methods, processes, products and medicines. This is achieved by offering small and medium size manufacturers, academic groups and revenue generating biotechs a unique partnership for the global market and by providing state of the art and cost effective solutions to end users and partners.

Ambitious companies serving the global research science market need state of the art solutions to be able to generate success and help establish a critical mass. The current amsbio portfolio is a testimony to this. Specializing in Genomics, Proteomics, Cell Culture and Stem Cell Sciences.

AMSBIO continues to offer a wide range of solutions from leading manufacturing partners and academic technology transfer departments. Key areas include cell migration, invasion, adhesion and proliferation where a number of platforms suitable for high content analysis are available. Growing cells in 3D is physiologically relevant and the most innovative set of products and technology currently commercially available for 3-D cell culture has been put together under the AMSBIO umbrella. These products are being used in key regenerative medicine therapy and cancer research as well as offering alternatives to the use of animals in biomedical research.