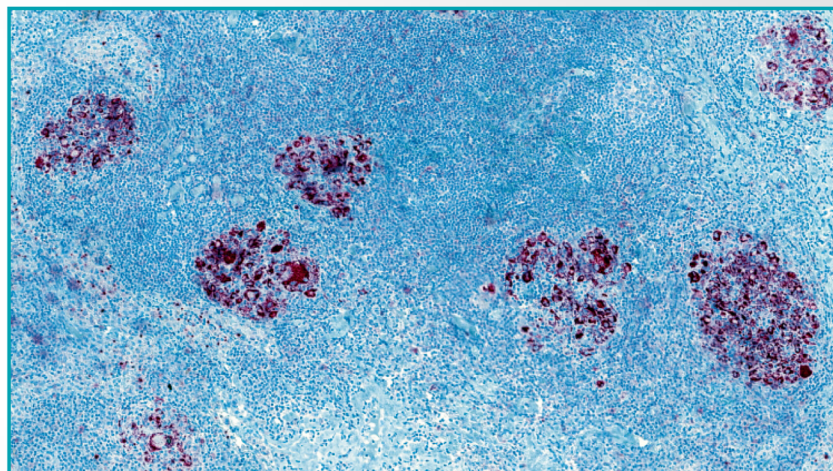




## ANTI - PD-L1 RABBIT CLONAL MONOSPECIFIC ANTIBODY DB 241 (CLONE Y19-I) for IHC application

Programmed death ligand 1 (PD-L1), known also as CD274 or B7-H1, is a 40kDa type1 transmembrane protein abundantly expressed on antigen-presenting cells and other immune cells. PD-L1 is an immunoinhibitory molecule that suppresses the activation of T-cells, resulting in tumor progression.

Its upregulation is obvious in tumor cells from a broad range of cancer types, including head and neck squamous cell carcinomas, lung, ovarian, colorectal or gastric cancers. The interaction of PD-1 (programmed death receptor-1) expressed on the cell membrane of T lymphocytes and PD-L1 on antigen-presenting cells is the example of an immune inhibitory checkpoint, promoting the tumor growth.



Membranous and cytoplasmic positivity of PD-L1 in epithelioid histiocytes and multinucleated giant cells in tuberculous lymphadenitis (alkaline phosphatase chromogen was used in this case). Formol fixed, paraffin embedded, 4um section of human tissue stained with Anti - PD-L1 monospecific clonal antibody.

- NEW QUALITY OF ANTIBODIES ON THE MARKET**  
made by original technology developed and owned by DB BIOTECH
- HIGHEST SPECIFICITY, AFFINITY AND AVIDITY**  
for IHC diagnostics
- MONOSPECIFIC**, recognizing only the specific **LINEAR** epitope not conformational as many monoclonal antibodies



### DB BIOTECH ANTIBODIES OFFER:

- SOLUTION** for problematic targets
- HIGHER QUALITY** and **DILUTION** for established markers
- RELIABILITY** on any **TISSUE**
- EXCEPTIONAL SPECIFICITY** recognizing corresponding antigen at the concentration of  $\geq 5\text{ng}$

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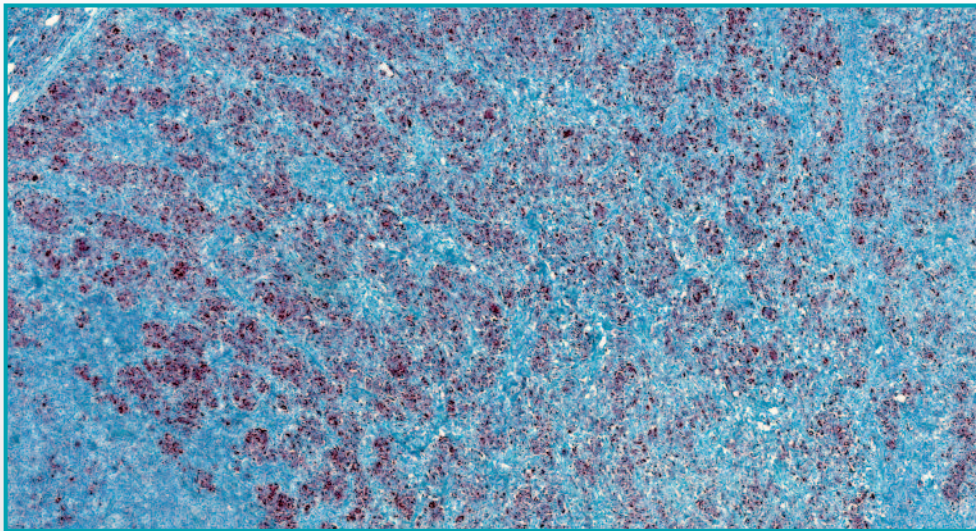
**PRODUCT FORMAT**

**concentrated** 1ml, 500µl, 200µl and 100µl  
 40µl TRIAL SIZE AVAILABLE

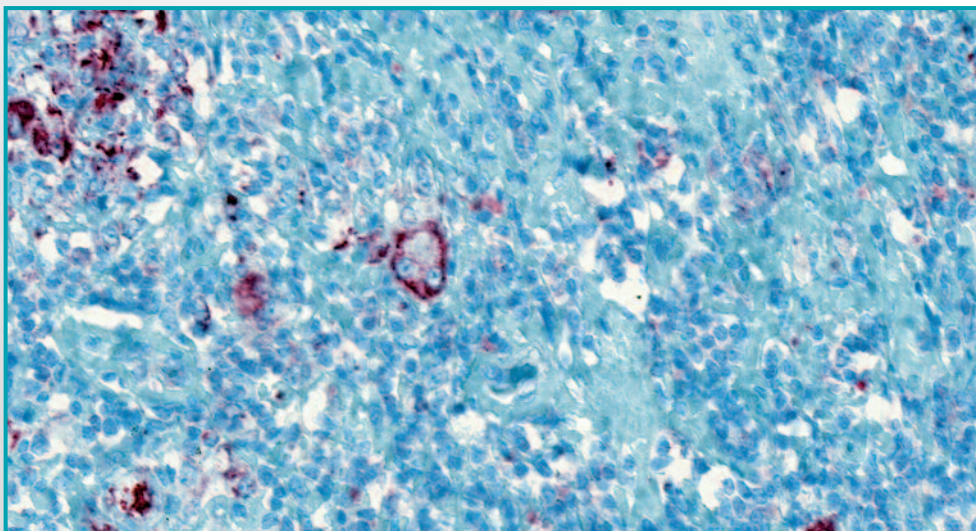
**pre-diluted** RTU 7ml, 15ml  
**minimum dilution** 1:100 – 1: 200

DB Biotech is focused on the design and production of high quality rabbit clonal antibodies developed by a novel and proprietary in vitro cloning technology which has been developed and perfected by the DB Biotech scientific team. Our unique technology enables the preparation of a pure immunoglobulin fraction corresponding to a single clone of B lymphocytes. The obtained immunoglobulin recognizes only one single linear epitope on the antigen molecule, making a DB Biotech antibody comparable in quality to its monoclonal analogue. In addition, the influence of the protein tertiary structure - frequently present in epitopes formed during production of monoclonal antibodies - is eliminated in the immunoglobulins corresponding to the clonal antibody.

DB Biotech produced antibodies correspond **strictly to the conserved linear epitope of the antigen** molecule, yielding a higher-quality, more specific antibody with significantly better affinity and avidity.



PD-L1 Expression in lymph node with classical Hodgkin Lymphoma and granulomatous reaction. Formol fixed, paraffin embedded, 4µm section of human tissue stained with Anti – PD-L1 monospecific clonal antibody. Alkaline Phosphatase chromogen was used in this case.



Positive PD-L1 staining in epithelioid histiocytes as well as neoplastic HRS cells. Formol fixed, paraffin embedded, 4µm section of human tissue stained with Anti – PD-L1 monospecific clonal antibody. Alkaline Phosphatase chromogen was used in this case.