

For Research Use Only

Pig IgD Recombinant monoclonal antibody, PBS Only

Catalog Number: 87737-1-PBS



Basic Information

Catalog Number: 87737-1-PBS	GenBank Accession Number: /	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): /	CloneNo.: 253406C11
Source: Rabbit	UNIPROT ID: K7ZRJ8	
Isotype: IgG	Full Name: Calculated MW: 43 kDa	
Immunogen Catalog Number: EG7410	Observed MW: 75 kDa and 25 kDa	

Applications

Tested Applications:
WB, Indirect ELISA
Species Specificity:
pig

Background Information

Immunoglobulin D (IgD) is an antibody class primarily functioning as a membrane-bound receptor on the surface of naïve B cells. Comprising less than 1% of serum immunoglobulins, IgD exists mainly in a transmembrane form that co-expresses with IgM on mature B lymphocytes. It plays a crucial role in B cell activation, survival, and immune surveillance by sensing environmental antigens and regulating humoral immune responses. Recent studies reveal IgD's involvement in mucosal immunity and its ability to bind to basophils and mast cells, triggering antimicrobial defense. Structurally, IgD features an extended hinge region, making it susceptible to proteolytic cleavage. Despite being discovered in 1965, IgD's precise functions remain an active area of immunological research. The immunogen for this antibody is Eg7410, and the immunogen sequence targets the Fc region of porcine IgD.

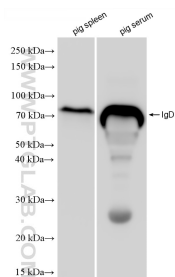
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

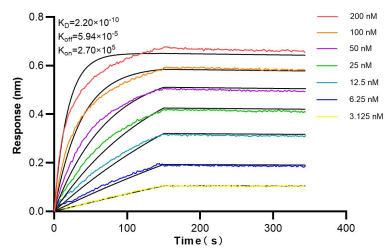
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87737-1-RR (Pig IgD antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87737-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 87737-1-RR against Pig IgD were performed. The affinity constant is 0.22 nM.