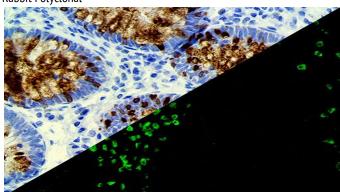
Bioscience for the world

IgD Clone: Polyclonal

Rabbit Polyclonal



Inset: IHC of IgD on a FFPE Colon Tissue, IF on a Frozen Tonsil Tissue Intended Use For In Vitro Diagnostic Use.

This antibody is intended for use in Immunohistochemical and Immunofluorescence applications on formalin-fixed paraffin-embedded tissues (FFPE), frozen tissue sections and cell preparations. Interpretation of results should be performed by a qualified medical professional.

Immunogen

IgD isolated from a pool of normal human plasma

Summary and Explanation

IgD makes up about 1% of proteins in the plasma membranes of immature B-lymphocytes (coexpressed with IgM) and is also found in serum in very small amounts. It is monomeric and incorporates the alpha-heavy chain in its structure. IgD's function is currently unknown, as mice lacking IgD seem to retain normal immune responses (implying redundancy if not lack of function), and IgD ceases to be expressed in activated B-lymphocytes. It may function as a regulatory antigen receptor.

IgD antibody reacts with surface immunoglobulin IgD delta chains. This antibody is useful when identifying Leukemias, Plasmacytomas, and B-cell lineage derived from Lymphomas, specifically Marginal Zone Lymphoma.

Antibody Type	Rabbit Polyclonal	Clone	Polyclonal	
lsotype	lgG	Reactivity	Paraffin, Frozen	
Localization	Cytoplasmic	Species Reactivity	Human	
Control	Tonsil, Lymph Node			
Application	Lymphomas, Hodgkin's & NH Lymphoma, Rejection & Autoimmunity			

Presentation

Anti-IgD is a purified immunoglobulin fraction of rabbit antiserum that is filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.

Catalog No.	Presentation	Dilution	Volume	
BSB 5666	Predilute	Ready-to-Use	3.0 mL	
BSB 5667	Predilute	Ready-to-Use	7.0 mL	
BSB 5668	Predilute	Ready-to-Use	15.0 mL	
BSB 5669	Concentrate 1:25-1:100		0.1 mL	
BSB 5670	5670 Concentrate 1:25-1:100		0.5 mL	
BSB 5671	Concentrate	1:25-1:100	1.0 mL	

Control Slides Available

Catalog No.	Quantity			
BSB-9234-CS	5 slides			

Storage Store at 2-8°C (Control Slides: Store at 20-25°C)

Precautions

IVD

1. For professional users only. Results should be interpreted by a qualified medical professional.

2. This product contains <0.1% sodium azide (NaN₃) as a preservative. Ensure proper handling procedures are used with this reagent.

3. Always wear personal protective equipment such as a laboratory coat, goggles, and gloves when handling reagents.

- 4. Dispose of unused solution with copious amounts of water.
- 5. Do not ingest reagent. If reagent is ingested, seek medical advice immediately.

 Avoid contact with eyes. If contact occurs, flush with large quantities of water.
Follow safety precautions of the heating device used for epitope retrieval (TintoRetriever Pressure Cooker or similar).

 8. For additional safety information refer to Safety Data Sheet for this product.
9. For complete recommendations for handling biological specimens, please refer to the CDC document, "Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories" (see References in this document).

Stability

This product is stable up to the expiration date on the product label. Do not use after expiration date listed on the package label. Temperature fluctuations should be avoided. Store appropriately when not in use and avoid prolonged exposure to room temperature conditions.

Specimen Preparation

Paraffin sections: The antibody can be used on formalin-fixed paraffin-embedded (FFPE) tissue sections. Ensure tissue undergoes appropriate fixation for best results. Pre-treatment of tissues with heat-induced epitope retrieval (HIER) is recommended using Bio SB ImmunoDNA Retriever with Citrate (BSB 0020-BSB 0023), ImmunoDNA Retriever with EDTA (BSB 0030-BSB 0033), or ImmunoDNA Digestor (BSB 0108-0112). See reverse side for complete protocol. Tissue should remain hydrated via use of Bio SB Immuno/DNA Washer solutions (BSB 0029 & BSB 0042).

Frozen sections and cell preparations: The antibody can be used on acetone-fixed frozen sections and acetone-fixed cell preparations.

IHC & IF Protocol Preparation for Frozen Tissues Procedure

- 1. Embed the specimen in OCT inside the cryostat.
- 2. Cut sections at 5 microns.
- 3. Place the section on a positively charged glass slide.
- 4. Air dry for 30-60 minutes.
- 5. Fix in acetone 100% for 2-10 minutes.
- 6. Air dry for another 10 minutes.

Preparation for FFPE Tissues Procedure

1. Cut and mount 3-5 micron formalin-fixed paraffin-embedded tissues on positively charged slides such as Bio SB Hydrophilic Plus Slides (BSB 7028). 2. Air dry for 2 hours at 58° C.

3. Deparaffinize, dehydrate, and rehydrate tissues.

4. Subject tissues to heat induced epitope retrieval (HIER) using a suitable retrieval solution such as ImmunoDNA Retriever with Citrate (BSB 0020-BSB 0023) or EDTA (BSB 0030-BSB 0033).

5. Any of three heating methods may be used:

a. TintoRetriever Pressure Cooker or Equivalent

Place tissues/slides in a staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA and place on trivet in the pressure cooker. Add 1-2 inches of distilled water to the pressure cooker and turn heat to high. Incubate for 15 minutes. Open and immediately transfer slides to room temperature.

b. TintoRetriever PT Module or Water Bath Method

Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA at 95°-99° C. Incubate for 30-60 minutes.

c. Conventional Steamer Method

Place tissues/slides in a pre-warmed staining dish or coplin jar containing the ImmunoDNA Retriever with Citrate or EDTA in a steamer, cover and steam for 30-60 minutes.

6. After heat treatment, transfer slides in ImmunoDNA Retriever with Citrate or EDTA to room temperature and let stand for 15-20 minutes.

7. For manual IF\IHC, perform antibody incubation at ambient temperature. For automated IF\IHC methods, perform antibody incubation according to instrument manufacturer's instructions.

8. Wash slides with ImmunoDNA washer or DI water.

9. Continue IF\IHC protocol. Wash slides between each step with ImmunoDNA washer solution.

Abbreviated Immunohistochemical Protocol

Step	ImmunoDetector AP/HRP	PolyDetector AP/HRP	PolyDetector Plus HRP	
Peroxidase/AP Blocker	5 min. 5 min.		5 min	
Primary Antibody	30-60 min.	30-60 min.	30-60 min.	
1st Step Detection	10 min.	30-45 min.	15 min.	
2nd Step Detection	10 min.	Not Applicable	15 min.	
Substrate- Chromogen	5-10 min.	5-10 min.	5-10 min.	
Counterstain / Coverslip	Varies	Varies	Varies	

Abbreviated AmpliDetector Plus FITC IF Protocol

Step	Incubation Time		
Rinse slides in IF wash buffer			
Drain and wipe excess IF wash buffer off slide			
Peroxidase Blocker	5 min.		
Apply Antibody	5 min.		
Apply Mouse/Rabbit Link	5 min.		
Apply HRP Label	5 min.		
Keep FITC reagents and slides in the dark			
Apply AmpliDetector FITC solution	5 min.		

Coverslip with IF mounting medium

Mounting Protocol IHC:

For detailed instructions using biodegradable permanent mounting media such as XyGreen PermaMounter (BSB 0169-0174) or organic solvent-based resin such as PermaMounter (BSB 0094-0097), refer to PI0174 or PI0097.

Mounting Protocol IF:

- 1. Bring FluoroMounter or FluoroMounter with DAPI to room temperature.
- 2. Rinse slides with distilled or deionized water.
- 3. Remove excess water from slides before laying them flat in the dark.
- 4. Turn the media bottle upside down before opening the dropper bottle.

5. Apply 1-3 drops of FluoroMounter to each slide making sure the specimen is covered.

6. Incubate 3-5 minutes at room temperature in the dark.

- 7. Coverslip.
- 8. Observe under a fluorescent microscope using the appropriate filters.
- 9. The slides are recommended to be stored at 2-8 °C in the dark.

Product Limitations

Due to inherent variability present in immunohistochemical procedures (including fixation time of tissues, dilution factor of antibody, retrieval method utilized, and incubation time), optimal performance should be established through the use of positive and negative controls. Results should be interpreted by a qualified medical professional.

References

1. Campo E, Miquel R, Krenacs L, et al. Am J Surg Pathol. 1999; Jan; 23(1):59-68

2. Mori S, Haqiwara S, Kodo H, Mohri N, Acta Pathol Jpn. 1986;Oct;36(1):1429-40 3. Oka K, Mori N, Yatabe Y, Acta Haematol. 1993;90(2):84-9

4. Bertero M, Novelli M, Fierro MT, Bernengo MG, J Am Acad Dermatol. 1994;Jan;30(1):23-30

5. Mollego M, Lloret E, Menarquez J, Piris MA, Isaacson PG, Am J Surg Pathol. 1997;Jul;2i(7):772-80

6. U.S. Department of Health and Human Services: Centers for Disease Control and Prevention. Guidelines for Safe Work Practices in Human and Animal Medical Diagnostic Laboratories. Supplement / Vol. 61, January 6, 2012. https://www.cdc.gov/mmwr/pdf/other/su6101.pdf

Symbol Key /	Légende des symboles/Erläuterung der	Symbo	le				
EC RE	QAdvis EAR AB Ideon Science Park Scheelevägen 17 SE-223 70 Lund, Sweden	┟	Storage Temperature Limites de température Zulässiger Temperaturbereich		Manufacturer Fabricant Hersteller	REF	Catalog Number Référence du catalogue Bestellnummer
IVD	In Vitro Diagnostic Medical Device Dispositif médical de diagnostic in vitro In-Vitro-Diagnostikum	[]i	Read Instructions for Use Consulter les instructions d'utilisation Gebrauchsanweisung beachten	\square	Expiration Date Utiliser jusque Verwendbar bis	LOT	Lot Number Code du lot Chargenbezeichnung
Bio SB P							



5385 Hollister Avenue, Bldg. 8, Ste. 108 Santa Barbara, CA 93111, USA Tel. (805) 692-2768 | Tel. (800) 561-1145 | Fax. (805) 692-2769

E-mail: sales@biosb.com | Website: www.biosb.com