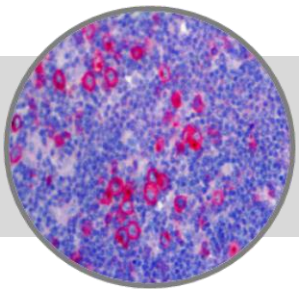
CD30

Clone: Ber-H2

Mouse Monoclonal



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Inset: IHC of CD30 on a FFPE Hodgkin's Lymphoma Tissue

Intended Use

For In Vitro Diagnostic Use.

This antibody is intended for use in Immunohistochemical 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

L428 cell line cells.

Summary and Explanation

CD30 is a transmembrane cytokine receptor belonging to the tumor necrosis factor (TNF) receptor superfamily. Mature CD30 has a molecular mass of 120 kDa and is derived from a 90 kDa precursor protein.

CD30 antibody detects an epitope which is expressed by Reed-Sternberg cells in Hodgkin's Disease, the majority of Anaplastic Large-cell Lymphomas, and in Embryonal Carcinomas and Seminomas. This antibody also stains plasma cells intensely in formalin-fixed paraffin-embedded tissue.

Antibody Type	Mouse Monoclonal	**Clone**	Ber-H2
Isotype	IgG1/K	**Reactivity**	Paraffin, Frozen
Localization	Membranous	**Control**	Tonsil, Lymph Node, Hodgkin's Lymphoma
	Species Reactivity	Human	

Precautions

1 For professional users only. Results should be interpreted by a qualified medical professional.
2. This product contains <0.1% sodium azide (NaN_3) as a preservative. Ensure proper handling procedures are used with this reagent.
3. Always wear personal protective equipment such as laboratory coat, goggles and gloves when handling reagents.
4. Dispose of unused solution with copious amount of water.
5. Do not ingest reagent. If reagent is ingested, seek medical advice immediately.
6. Avoid contact with eyes. If contact occurs, flush with large quantities of water.
7. 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).

Presentation

CD30 is a mouse monoclonal antibody derived from cell culture supernatant that is concentrated, dialyzed, filter sterilized and diluted in buffer pH 7.5, containing BSA and sodium azide as a preservative.

Catalog No.	*Antibody Type*	*Dilution*	*Volume/Qty*
BSB 5211	Tinto Prediluted	Ready-to-Use	3.0 mL
BSB 5212	Tinto Prediluted	Ready-to-Use	7.0 mL
BSB 5213	Tinto Prediluted	Ready-to-Use	15.0 mL
BSB 5214	Concentrated	1:100 - 1:500	0.1 mL
BSB 5215	Concentrated	1:100 - 1:500	0.5 mL
BSB 5216	Concentrated	1:100 - 1:500	1.0 mL

Control Slides Available

Catalog No.	*Quantity*
BSB 5217	5 slides

Storage

Store at 2-8°C

Stability

This product is stable up to the expiration date on the product label. Do not use after expiration date listed on 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 for labeling acetone-fixed frozen sections and acetone-fixed cell preparations.

Staining 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 staining, perform antibody incubation at ambient temperature. For automated staining methods, perform antibody incubation according to instrument manufacturer's instructions.
8. Wash slides with ImmunoDNA washer or DI water.
9. Continue IHC staining 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

References

1. Schwarting R, et al. Blood. 1989;74:1678-1689
2. Fonatsch C, et al. Genomics. 1992;14:825-826
3. Piris J, et al. Histopathology. 1990;17:211-218
4. 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.

Performance Characteristics

Normal Tissues

Positive (+)	
Large lymphoid cells (Localized around lymph follicles)	Scattered labelling
Large lymphoid cells (At the margin of germinal centres)	Scattered Labelling
Plasma cells (Paraffin-embedded sections)	A subpopulation was labelled
Medullary thymocytes (Thymus)	Few were labelled
Exocrine pancreatic cells of non-lymphoid tissue (Cytoplasm) and paraffin-embedded sections	Frozen Labelled diffusely
Cerebral cortical neurons (Cytoplasm) Paraffin-embedded sections (A portion was labelled)	
Purkinje cells of the cerebellum (Cytoplasm) Paraffin embedded sections	A portion was labelled

Abnormal Tissues

Positive (+)		
T-cell phenotypes	B-cell phenotypes	
Null-cell phenotypes	ALCL (Frozen sections) 22/22	
Anaplastic large-cell lymphoma	paraffin-embedded sections	60/60
Nodular sclerosis	paraffin-embedded sections of Hodgkin's disease	61/61
Mixed cellularity	paraffin-embedded sections of Hodgkin's disease	53/53
Lymphocyte-depleted	paraffin-embedded sections of Hodgkin's disease	8/10
Lymphocyte-predominance	paraffin-embedded sections of Hodgkin's disease	4/13
Lymphomatoid papulosis (frozen and paraffin-embedded sections of non-Hodgkin's lymphomas) weak staining in 11/11 cases		
Lymphoplasmocytoid/cytic- B-cell lymphomas	strong staining in 20/67 cases	
Pure embryonal carcinoma (EC), or EC components of germ cell tumours 48/50		
Activated mesothelium	pleural and peritoneal effusions	16/28
Mesotheliomas	small foci of tumour cells	2/8
Negative (-)		
Teleangiectatic granuloma 0/8	Kaposi's sarcoma 0/8	
Mixed and pure germ cell tumours without EC components 0/27		

Mounting Protocols

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.

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.

Symbol Key / Légende des symboles/Erläuterung der Symbole

EC REP EMERGO EUROPE Prinsessegracht 20 2514 AP The Hague The Netherlands	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	Read Instructions for Use Consulter les instructions d'utilisation Gebrauchsanweisung beachten	Expiration Date Utiliser jusque Verwendbar bis	LOT Lot Number Code du lot Chargenbezeichnung

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