

Immunotherapy Cell Line Microarray 11-Core (2 mm)



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Intended Use

For Research Use Only.

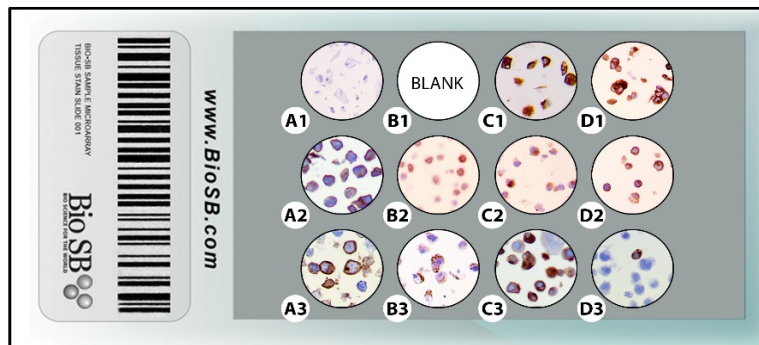
Summary and Explanation

The Immunotherapy Cell Line Microarray (CLMA) is an unstained ready-to-use microscope slide consisting of 11 - 2 mm cores of normal human formalin-fixed paraffin-embedded cell lines which were assembled in array fashion to allow multiplex molecular pathology analysis and validation of reagents, or to be used as controls for Immunohistochemistry and/or *in situ* hybridization (CISH and FISH) applications.

Presentation

Five Immunotherapy CLMA's with 11 - 2 mm cores each, mounted on Hydrophilic Plus Slides are provided in a plastic mailer.

The map below outlines the various cell lines used. Each slide comes with a "blank" core for easy orientation:



Positive for T cell subsets: CD4, CD8, CD68, FOXP3
Immune regulators: PD-L1, PD-L2, CTLA-4, B7H3, B7H4, OX-40
IHC using the PolyDetector Plus HRP/DAB in TintoStainer

A1 CD4 - Normal Human Lung Fibroblast	B1 BLANK	C1 PD-L1 Breast Carcinoma	D1 B7H3 + Metastatic Breast Cancer from pleural effusion
A2 CTLA4 + Malignant Melanoma Brain Metastasis	B2 FOX P3 + Colorectal Adenocarcinoma	C2 CD68 + Metastatic Breast Cancer from pleural effusion	D2 B7H3 + Malignant Melanoma, Skin
A3 CD4 + Acute Lymphoblastic Leukemia	B3 PD-L1 + Metastatic Prostate Cancer from Lymph Node	C3 PD-L1 + Mesothelioma Lung Cancer	D3 OX-40 + Acute Myelogenous Leukemia

Catalog No.	Number of Slides
BSB 0304	5

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.

Precautions

1. For professional users only. Results should be interpreted by a qualified medical professional.
2. Ensure proper handling procedures are used with reagent.
3. Always wear personal protective equipment such as laboratory coat, goggles, and gloves when handling reagents.
4. Dispose of unused material according to local and federal regulations.
5. Follow safety precautions of the heating device used for epitope retrieval (TintoRetriever Pressure Cooker or similar).
6. For additional safety information refer to Safety Data Sheet for this product.
7. 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).

Staining Procedure

1. Deparaffinize, dehydrate and rehydrate CLMA.
2. Subject CLMA to heat induced epitope retrieval (HIER) using a suitable retrieval solution such as ImmunoDNA Retriever with Citrate (BSB 0020-BSB 0023), or ImmunoDNA Retriever EDTA (BSB 0030-BSB 0033).

3. Any of three heating methods may be used:

a. TintoRetriever Pressure Cooker or Equivalent

Place 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 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 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.

4. After heat treatment, transfer slides in ImmunoDNA Retriever with Citrate or EDTA to room temperature and let stand for 15-20 minutes.
5. For manual staining, perform antibody incubation at ambient temperature. For automated staining methods, perform antibody incubation according to instrument manufacturer's instructions.
6. Wash slides with ImmunoDNA washer or DI water.
7. 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

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/cell lines, 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. 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.

Symbol Key / Légende des symboles/Erläuterung der Symbole

	Storage Temperature Limites de température Zulässiger Temperaturbereich		Manufacturer Fabricant Hersteller		Catalog Number Référence du catalogue Bestellnummer
	Read Instructions for Use Consulter les instructions d'utilisation Gebrauchsanweisung beachten		Expiration Date Utiliser jusque Verwendbar bis		Lot Number Code du lot Chargenbezeichnung

