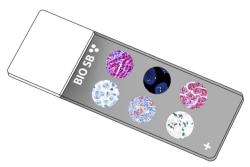
Doc #: P19348 Version #: 2



PMS2 Control Slides





Intended Use

For In Vitro Diagnostic Use.

Summary and Explanation

PMS2 is a gene that encodes for DNA repair proteins involved in mismatch repair. Carriers of the mismatch repair gene mutations have a high lifetime risk of developing Hereditary Non-Polyposis Colon Cancer and several other cancers including endometrial cancer due to microsatellite instability caused by accumulation of DNA replication errors in proliferating cells.

Along with MLH1, MSH2 and MSH6, PMS2 is helpful in diagnosing MSI. Tumors with low-level MSI show unfavorable pathological characteristics compared to tumors with none and tumors with high-level MSI.

Presentation

Five slides of PMS2 positive tissues, each mounted on Hydrophilic Plus Slides, provided in a plastic mailer.

Catalog No.	Quantity			
BSB-9348-CS	5 slides			
BSB 2125	5 slides			
BSB-2373-CS	5 slides			

Storage Store at 20-25°C

Precautions

- 1. For professional users only. Results should be interpreted by a qualified medical professional.
- 2. 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. 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.

IHC Protocol

- 1. 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).
- 2. 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.

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

Abbreviated Immunohistochemical Protocol

A DESCRIPTION OF THE PROPERTY						
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 IF Protocol

71001CVIACCA II 110CCCC				
Step	Incubation Time			
Rinse slides in IF wash buffer	5 minutes			
Drain and wipe excess IF wash buffer off slide				
Conduct remaining steps in the dark				
Apply Antibody	30-60 minutes			
Rinse with 3 changes of IF wash buffer	3x15 minutes each			
Coverslip with IF mounting medium				

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.

References

1. Garg K, et al. J Clin Pathol. 2009; 62:679-684 2. Gill S, et al. Clin Cancer Res. 2005; 11:6466-71 3. Modica I, et al. Am J Surg Pathol. 2007; 31:744-51 4. Shia J, et al. Am J Surg Pathol. 2009; 33:1639-45 5. Kets CM, et al. Mod Pathol. 2006; 19:1624-30 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.

Symbol Key	/ Légende des s	ymboles/Erläuterung	der Symbole
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EC REI	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	(ii)	Read Instructions for Use Consulter les instructions d'utilisation Gebrauchsanweisung beachten	\subseteq	Expiration Date Utiliser jusque Verwendbar bis	LOT	Lot Number Code du lot Chargenbezeichnung