Val Plex 2

Multiplex Reagent
901-VLT8022-041619

VALENT®

BIOCARE MEDICAL

Catalog Number: **VLT 8022 G20**

Description: 20 mL, Ready-to-use

Intended Use:
For In Vitro Diagnostic Use
Val Plex 2 is a cocktail of horseradish peroxidase (HRP) anti-mouse antibody conjugate and alkaline phosphatase (AP) anti-rabbit antibody conjugate intended for use in the detection of mouse IgG and IgM and rabbit IgG primary antibodies on formalin-fixed, paraffin-embedded (FFPE) tissues in an immunohistochemistry (IHC) procedure performed on Biocare Medical's VALENT® Automated Slide Staining Platform. The clinical interpretation of any staining or its absence should be complemented by morphological studies and proper controls and should be evaluated within the context of the patient's clinical history and other diagnostic tests by a qualified pathologist.

Summary & Explanation:
Val Plex 2 is a cocktail of HRP anti-mouse antibody conjugate and AP anti-rabbit antibody conjugate suitable for the detection of mouse and rabbit primary antibodies, respectively, as part of an IHC double-stain procedure on the VALENT Automated Slide Staining Platform. Val Plex 2 is intended to be used in combination with Val DAB Chromogen Kit (VLT8008K) to produce a brown stain at the site of mouse primary antibody binding, and Val Fast Red Chromogen Kit (VLT8019K) to produce a red stain at the site of rabbit primary antibody binding. Val Plex 2 is prepared using a proprietary micro-polymer technology that provides a highly sensitive detection system, with minimal background staining. Val Plex 2 does not use biotin nor streptavidin, thus avoiding non-specific staining associated with endogenous biotin. Val Plex 2 is provided ready-to-use and is intended to be applied as defined by the staining protocols on the VALENT Automated Slide Staining Platform.

Known Applications:
Immunohistochemistry (formalin-fixed paraffin-embedded tissues)

Reagents Provided:
Val Plex 2 (VLT8022G20) 1 x 20 mL

Reconstitution, Dilution and Mixing:
Val Plex 2 is provided ready-to-use. No reconstitution, dilution or mixing is required.

Materials and Reagents Required But Not Provided:
Reagents and materials, such as primary antibodies, chromogens and ancillary reagents are not provided.

Refer to the Biocare Medical website located at http://biocare.net for information regarding catalog numbers and ordering information.

Refer to the VALENT Automated Slide Staining Platform User Manual for a complete list of VALENT specific materials and reagents required.

Storage and Stability:
Store at 2°C to 8°C. The product is stable to the expiration date printed on the label, when stored under these conditions. Do not use after expiration date.

Instructions for Use:
Deparaffinization: Deparaffinize slides for 8 minutes using Val DePar.
Pretreatment Solution/Protocol: Please refer to the respective prediluted multiplex antibody cocktail data sheet for the recommended pretreatment solution and protocol on the VALENT.

Instructions for Use Cont'd:
Peroxide Block: Block for 5 minutes using Val Peroxidase Block.
Protein Block (Optional): Block for 10-20 minutes using Val Background Block.
Primary Antibody Cocktail: Please refer to the respective prediluted multiplex antibody cocktail data sheet for incubation time.
Secondary: Apply Val Plex 2 for 30 minutes.
Chromogen (1): Incubate for 5 minutes with Val DAB.
Chromogen (2): Incubate for 15 minutes with Val Fast Red.
Counterstain: Rinse slides with Aqua Rinse. Incubate for 5 minutes with Val Hematoxylin. Rinse with Aqua Rinse followed by a wash with Val Wash Buffer.

Technical Notes:
Use Val Wash Buffer. PBS-based wash buffers will inhibit alkaline phosphatase staining.

Val Plex 2 is provided in vials ready for use on the VALENT Automated Slide Staining Platform. Uncap the vial and place in the VALENT reagent tray. The VALENT Automated Slide Staining Platform will apply reagent as required in the selected protocol.

Refer to the appropriate antibody data sheet for the recommended staining protocol. Refer to the VALENT Automated Slide Staining Platform User Manual for detailed instructions on instrument operation and additional protocol options.

Limitations:
These reagents have been optimized for use with VALENT antibodies and ancillary reagents. The protocols for a specific application can vary. These include, but are not limited to fixation, heat-retrieval method, incubation times, and tissue section thickness. Third party primary antibodies may be used on the VALENT Automated Slide Staining Platform; however, appropriate antibody concentration may depend upon multiple factors and must be empirically determined by the user. Ultimately, it is the responsibility of the investigator to determine optimal conditions.

Quality Control:
Refer to CLSI Quality Standards for Design and Implementation of Immunohistochemistry Assays; Approved Guideline-Second edition (I/LA28-A2) CLSI Wayne, PA USA (www.clsi.org). 2011

Precautions:
1. Refer to reagent Safety Data Sheet for precautions.
2. Specimens, before and after fixation, and all materials exposed to them should be handled as if capable of transmitting infection and disposed of with proper precautions. Never pipette reagents by mouth and avoid contacting the skin and mucous membranes with reagents and specimens. If reagents or specimens come in contact with sensitive areas, wash with copious amounts of water. (3)
3. Microbial contamination of reagents may result in an increase in nonspecific staining.
4. Incubation times or temperatures other than those specified may give erroneous results. The user must validate any such change.
5. Do not use reagent after the expiration date printed on the vial.

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IRRITANT

Troubleshooting:
Follow the antibody specific protocol recommendations according to data sheet provided. If atypical results occur, contact Biocare's Technical Support at 1-800-542-2002.

References:
1. Taylor CR, Cote RJ. Immunomicroscopy: A Diagnostic Tool for the Surgical Pathologist. 3rd Ed. Philadelphia: Saunders Elsevier, 2006.
2. Dabbs DJ. Diagnostic Immunohistochemistry: Theranostic and Genomic Applications. 3rd Ed. Philadelphia: Saunders Elsevier, 2010.
3. Clinical and Laboratory Standards Institute (CLSI). Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline-Fourth Edition (M29-A4) Wayne, PA 2014.

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