C4d complement

Catalog # 10096.05 or .10 (0.5 ml or 1.0 ml concentrated)
Catalog # 10096.50 (5.0 ml ready to use)

INTENDED USE

- ***In Vitro:*** This product is intended for qualitative immunohistochemistry on normal and neoplastic, formalin-fixed, paraffin embedded tissue sections, to be analyzed by light microscopy. This antibody was tested both with manual application and the most popular automated immunostainers.
- ***Description:*** Activation of the classical complement pathway begins with binding of an activating substance to the C1 molecule, which activates the C1 sub-units, resulting in cleavage of C4 to C4b releasing C4a in the process. The short-lived C4b molecule can bind covalently to membranes. This process is limited to the immediate vicinity of the C1 complex. Because of the short life of the C4b molecule much of the C4d is free and circulates in serum.
- ***Expected Staining Pattern:*** Cell membrane, cytoplasm.
- ***Positive Control:*** Tonsil

MATERIALS PROVIDED

- ***C4d specific rabbit clonal antibody*** #10096, concentrated, in TBS buffer pH 8,0, 20mM, contains 20 mg/ml BSA and 0.05% sodium azide.
- ***Antibody Concentration:*** Not known
- ***Host:*** Rabbit
- ***Epitope:*** Not determined
- ***Species Reactivity:*** Human. Others not tested.
- ***Clone:*** A24-T
- ***Immunogen:*** Peptide derived from N-terminal sequence of human C4
- ***Sterility:*** This product is not sterile.

MATERIALS REQUIRED, BUT NOT PROVIDED

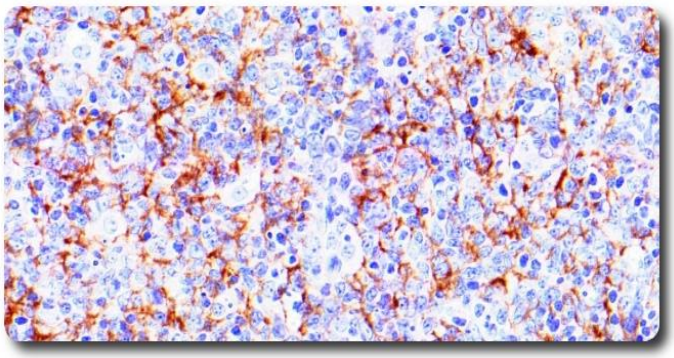
- Detection system
- Chromogen/substrate system

METHODS AND PROCEDURES

- ***Tissue Section Pretreatment:*** Staining of formalin-fixed tissue sections requires treating in boiling 10mM citrate buffer, pH 6.0 for 10-20 minutes.
- ***Recommended Pretreatment:***
  HISTOLS®-Citrate Buffer (cat# 30010)
  HISTOLS®-Peroxidase Blocking Solution (cat# 30013)
  HISTOLS®-BBPS (Background Blocking Protein Solution) (cat# 30012)
- ***Dilution of Concentrated Antibody:*** 1:100-1:200 in antibody diluent (for informational purposes only), exact dilution must be determined by user.
- ***Primary Antibody Incubation Time:*** 60 minutes at RT.
- ***Recommended Detection System:***
  HISTOLS®-MR (anti- mouse & rabbit Ig) (cat# 30011)
- ***Visualization:*** To detect antibody binding sites, follow the instructions provided with the chromogen/substrate system.

STORAGE AND STABILITY

This product contains sodium azide and is stable when stored at 2-8°C. Do not use after expiration date indicated on label of the product. If reagent is not stored as recommended, performance must be validated by the user.



C4d complement, lymph node germinal center

For Research Use Only