Product Datasheet

Complement C4d Antibody (SPM545) [DyLight 680] NBP2-34421FR

Unit Size: 0.1 ml

Store at 4C in the dark.

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NBP2-34421FR

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Unit Size	Comproment or a running ay (c	
Concentration Please see the vial label for concentration. If unlisted please contact technical services. Storage Store at 4C in the dark. Clonality Monoclonal Clone SPM545 Preservative 0.05% Sodium Azide Isotype IgG1 Kappa Conjugate DyLight 680 Purity Protein A or G purified Buffer 50mM Sodium Borate Product Description Description This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet. Host Mouse Gene ID 720 Gene Symbol C4A Species Human Marker Acute Humoral Rejection Marker Specificity/Sensitivity This monoclonal antibody is specific to Complement 4d (C4d) and it reacts with the secreted as well as cell-bound C4d.C4d is a degradation product of the activated complement factor C4b. Complement 4b is typically activated by binding of Abs to specific traper molecules. Following activation and degradation of the C4 molecule, thio-ester groups are exposed, which allow transient, covalent binding of the degradation product Complement 4b in endothelial cell surfaces and extracellular matrix components of vascular basement membranes near the sites of C4 activation. The presence of C4d in pertubular capillaries is a key indicator for acute humoral (i.e. antibody-mediated) rejection of kidney, heart, pancress and lung allograft rejection and the production acute of antibody-mediated rejection, acute vascular rejection acute of antibody-mediated in production of the component can be detected in peritubular capillaries is a key indicator for acute humoral (i.e. antibody-mediated) rejection of kidney, heart, pancress and lung allograft rejection and the production, acute vascular rejection, acute or antibody-mediated in the production and degradation of the degradation product of production, acute or antibody-mediated in the production and degradation and degradation and degradation of the degradation product complement of vascular basement membranes and straces and extracellular rej	Product Information	
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Clone SPM545 Preservative 0.05% Sodium Azide Isotype IgG1 Kappa Conjugate DyLight 680 Purity Protein A or G purified Buffer 50mM Sodium Borate Product Description Description This conjugate is made on demand. Actual recovery may vary from the stated volume of this product. The volume will be greater than or equal to the unit size stated on the datasheet. Host Mouse Gene ID 720 Gene Symbol C4A Species Human Marker Acute Humoral Rejection Marker Specificity/Sensitivity This monoclonal antibody is specific to Complement 4d (C4d) and it reacts with the secreted as well as cell-bound C4d.C4d is a degradation product of the activated complement factor C4b. Complement 4b is typically activated by binding of 4bs to specific target molecules. Following activation and degradation of the C4 molecule, thin-ester groups are exposed, which absement membranes near the sites of C4 activation. The presence of C4d in peritubular capillaries is a key indicator for acute humoral (i.e. antibody-mediated) rejection of kindrey, heart, pancreas and lung allografts. As an established marker of antibody-mediated acute renal allograft rejection and its procilior in predictor of transplant kidney graft survival. Anti-C4d, combined with anti-C3d, can be utilized as a tool for diagnosis of allograft rejection hat may warrant a prompt and aggressive anti-rejection treatment. Immunogen Recombinant human Complement Complement C4d protein	Concentration	·
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Preservative IgG1 Kappa IgG1 Kappa IgG1 Kappa DyLight 680 Purity Protein A or G purified SomM Sodium Borate	Clonality	Monoclonal
IgG1 Kappa	Clone	SPM545
Purity	Preservative	0.05% Sodium Azide
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Species	Host	Mouse
Marker	Gene ID	720
Marker Acute Humoral Rejection Marker This monoclonal antibody is specific to Complement 4d (C4d) and it reacts with the secreted as well as cell-bound C4d.C4d is a degradation product of the activated complement factor C4b. Complement 4b is typically activated by binding of Abs to specific target molecules. Following activation and degradation of the C4 molecule, thio-ester groups are exposed, which allow transient, covalent binding of the degradation product Complement 4d to endothelial cell surfaces and extracellular matrix components of vascular basement membranes near the sites of C4 activation. The presence of C4d in peritubular capillaries is a key indicator for acute humoral (i.e. antibody-mediated) rejection of kidney, heart, pancreas and lung allografts as an established marker of antibody-mediated acute renal allograft rejection and its proclivity for endothelium, this component can be detected in peritubular capillaries in chronic renal allograft rejection as well as hyperacute rejection, acute vascular rejection, acute cellular rejection, and borderline rejection. It as been shown to be a significant predictor of transplant kidney graft survival. Anti-C4d, combined with anti-C3d, can be utilized as a tool for diagnosis of allograft rejection that may warrant a prompt and aggressive anti-rejection treatment. Immunogen Recombinant human Complement Complement C4d protein Notes	Gene Symbol	C4A
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DyLight (R) is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries.	Immunogen	Recombinant human Complement Complement C4d protein

Product Application Details

Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin **Applications**



Recommended Dilutions

Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin





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NBP1-43319FR-0.5ml Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1) [DyLight 680]

210-TA-005 TNF-alpha [Unconjugated]
DIP100 CXCL10/IP-10/CRG-2 [HRP]

MAB1455 Albumin Antibody (188835) [Unconjugated] - Serum

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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