

Product datasheet

Anti-CD79a antibody [HM47/A9], prediluted ab74591

製品の概要

製品名	Anti-CD79a antibody [HM47/A9], prediluted
製品の詳細	Mouse monoclonal [HM47/A9] to CD79a, prediluted
由来種	Mouse
特異性	We have data to indicate that this antibody may not cross react with Opossum. However, this has not been conclusively tested and expression levels may vary in certain cell lines/tissues.
アプリケーション	適用あり: IHC-P
種交差性	交差種: Mouse, Rat, Rabbit, Horse, Chicken, Guinea pig, Cow, Human, Pig, Monkey
免疫原	Synthetic peptide: GTYQDVGSLNIADVQ , corresponding to amino acids 208-222 of Human CD79a Run BLAST with Run BLAST with
ポジティブ・コントロール	Human lymph node, tonsil and rat spleen tissues.

製品の特性

製品の状態	Prediluted
保存方法	Shipped at 4°C. Store at +4°C.
精製度	Protein G purified
特記事項(精製)	ab74591 is purified from ascites fluid
ポリ/モノ	モノクローナル
クローン名	HM47/A9
アイソタイプ	IgG1
軽鎖の種類	kappa

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab74591** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

IHC-P

追加情報

IHC-P: Ready to use.

Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

ターゲット情報**機能**

Required in cooperation with CD79B for initiation of the signal transduction cascade activated by binding of antigen to the B-cell antigen receptor complex (BCR) which leads to internalization of the complex, trafficking to late endosomes and antigen presentation. Also required for BCR surface expression and for efficient differentiation of pro- and pre-B-cells. Stimulates SYK autophosphorylation and activation. Binds to BLNK, bringing BLNK into proximity with SYK and allowing SYK to phosphorylate BLNK. Also interacts with and increases activity of some Src-family tyrosine kinases. Represses BCR signaling during development of immature B cells.

組織特異性

B-cells.

関連疾患

Defects in CD79A are the cause of agammaglobulinemia type 3 (AGM3) [MIM:613501]. It is a primary immunodeficiency characterized by profoundly low or absent serum antibodies and low or absent circulating B cells due to an early block of B-cell development. Affected individuals develop severe infections in the first years of life. Note=Two different mutations, one at the splice donor site of intron 2 and the other at the splice acceptor site for exon 3, have been identified. Both mutations give rise to a truncated protein.

配列類似性

Contains 1 Ig-like C2-type (immunoglobulin-like) domain.

Contains 1 ITAM domain.

翻訳後修飾

Phosphorylated on tyrosine, serine and threonine residues upon B-cell activation.

Phosphorylation of tyrosine residues by Src-family kinases is an early and essential feature of the BCR signaling cascade. The phosphorylated tyrosines serve as docking sites for SH2-domain containing kinases, leading to their activation which in turn leads to phosphorylation of downstream targets. Phosphorylation of serine and threonine residues may prevent subsequent tyrosine phosphorylation.

細胞内局在

Cell membrane. Following antigen binding, the BCR has been shown to translocate from detergent-soluble regions of the cell membrane to lipid rafts although signal transduction through the complex can also occur outside lipid rafts.

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