

## **Product Data Sheet**

## Biotin anti-human CD167a (DDR1)

Catalog # / Size:	334004 / 100 µg
Clone:	51D6
Isotype:	Mouse IgG3, κ
Immunogen:	NIH-3T3 cells transfected with human DDR1 (CD167a)
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5 mg/ml
Storage:	The antibody solution should be stored undiluted at 4°C. <b>Do not freeze.</b>

## **Applications:**

Applications: FC - Quality tested





Application

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Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent
	staining with flow cytometric analysis. For immunofluorescent staining, the
	suggested use of this reagent is $\leq 2.0 \ \mu g$ per million cells in 100 $\mu$ l volume. It
	is recommended that the reagent be titrated for optimal performance for each
	application.

Application Notes: Additional reported (for the relevant formats) applications include: immunoprecipitation.

Application References:	1. Matsuyama W, et al. 2005 J. Immunol. 174:6490
	2. Vogel W, et al. 2002. Haematologica 88:126.

**Description:** The 51D6 monclonal antibody recognizes human CD167a also known as discoidin domain receptor, DDR1, neuroepithelial tyrosine kinase, epithelial-specific receptor kinase, tyrosine kinase receptor E (trkE), cell adhesion kinase (CAK), PTK3, and RTK6. CD167a is a membrane type II receptor kinase, containing a factor VIII-like domain. Three isoforms of CD167a have been reported. Predicted molecular weights are: isoform 1, approximately 101.5 kD, isoform 2, approximately 101 kD, and isoform 3 approximately 97 kD. CD167a is expressed on epithelial cells, keratinocytes, leukocytes, monocytes and has been reported to be overexpressed in some breast carcinomas. CD167a expression can be upregulated by p53. CD167a has been reported to interact with a variety of proteins including collagen type II alpha 1, collagen type V alpha 2, collagen type XI alpha 1, phospholipase gamma 1, SHC, and the lipid-anchored docking protein FRS2. CD167a can be phosphorylated on Y513. Animal studies suggest that CD167a is involved in arterial wound healing. The 51D6 antibody has been shown to be useful for flow cytometric detection of human CD167a as well as immunoprecipitation.

Antigen References:	<ol> <li>DiMarco E, et al. 1993. J. Biol. Chem. 268:24290.</li> <li>Hou G, et al. 2001. J. Clin. Invest. 107:727.</li> <li>Johnson JD, et al. 1993. Proc. Natl. Acad. Sci. USA 90:50</li> <li>Sakuma S, et al. 1996. FEBS Lett. 398:165.</li> </ol>	677.
Related Products: Product Cell Staining Buffer		Clone

Cell Staining Buffer RBC Lysis Buffer (10X) APC Streptavidin APC/Cy7 Streptavidin Human TruStain FcX™ (Fc Receptor Blocking Solution) Biotin Mouse IgG3, κ Isotype Ctrl MG3-35



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