

# Product datasheet for BM4045

## CD9 Mouse Monoclonal Antibody [Clone ID: K41]

## **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Clone Name:	K41
Applications:	FC, IHC, WB
Recommended Dilution:	Suitable for Immunohistochemistry on: Frozen sections: 2-5 μg/ml, 1/80-1/200). Paraffin sections: 8 μg/ml, 1/50, pretreatment is not necessary. Suggested positive control: human tonsil. Also works in FACS and Western blot.
Reactivity:	Canine, Feline, Human, Monkey, Rabbit
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Vero cells
Specificity:	<ul> <li>Clone K41 detects CD9.</li> <li>Antigen distribution on Isolated cells: CD9 is mainly expressed on platelets, on early B-cells, and monocytes. Further reactivity could be seen with basophiles and eosinophiles. CD9 is used for the characterization of leukaemias and lymphomas. 90% of non-T acute lymphoblastic leukaemic cells, 50% of acute myeloid as well as chronic lymphoid leukaemias express the antigen.</li> <li>Tissue sections: glomeruli, sinus histiocytes, germinal centre, brain white matter, nerves, skin, and vascular smooth muscles.</li> </ul>
Formulation:	PBS, pH 7.2 with 10 mg/ml BSA as a stabilizer and 0.01% thimerosal as a preservative. State: Purified State: Lyophilized Ig fraction
<b>Reconstitution Method:</b>	Restore with 0.5 ml distilled water.
Concentration:	0.4 mg/ml
Purification:	Affinity chromatography.
Conjugation:	Unconjugated



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Storage:	Store the antibody at 2-8°C for one month or (in aliquots) at -20°C for longer. Do not freeze working dilutions. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	CD9 molecule
Database Link:	Entrez Gene 928 Human P21926
Background:	CD9 is a member of the tetraspan or transmembrane 4 superfamily. The family members (CD9, CD63, CD37, Cd53, CD81, CD82, CD151) show a high degree of homology in their membrane-spanning domain. CD9 is the only member with N-linked sugar bound to the first extracellular segment. Tetraspans are expressed by many cell types and show a different subcellular distribution. CD9 is constitutively surface-expressed by platelets and pre-B cells and is present in the alpha-granules of platelets. The participation of different tetraspan members in signalling complexes on B and T cells have been described. Furthermore, association of CD9 with beta1 integrins has been found. Anti CD9 monoclonal antibodies induce homotypic pre-B cell aggregation and fibronectin receptor-mediated adherence of these cells to bone marrow fibroblasts. Recent observations suggest a role of CD9 in adhesion.
Synonyms:	MIC3, TSPAN29, GIG2, p24, Tetraspanin-29, 5H9 antigen

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### CD9 Mouse Monoclonal Antibody [Clone ID: K41] – BM4045

Note:

#### Protocol: Protocol with frozen, ice-cold acetone-fixed sections:

The whole procedure is performed at room temperature

- 1. Wash in PBS
- 2. Block endogenous peroxidase
- 3. Wash in PBS
- 4. Block with 10% normal goat serum in PBS for 30min. in a humid chamber
- 5. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber
- 6. Wash in PBS

7. Incubate with secondary antibody (peroxidase-conjugated goat anti mouse IgG+IgM (H+L) minimal-cross reaction to human) for 1h in a humid chamber

- 8. Wash in PBS
- 9. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.
- 10. Wash in PBS
- 11. Counterstain with Mayer's hemalum

#### Protocol with formalin-fixed, paraffin-embedded sections:

The whole procedure is performed at room temperature

- 1. Deparaffinize and rehydrate tissue section
- 2. Block endogenous peroxidase
- 3. Wash in PBS
- 4. Block with 10% normal goat serum in PBS for 30min. in a humid chamber
- 5. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber
- 6. Wash in PBS

7. Incubate with secondary antibody (peroxidase-conjugated goat anti mouse IgG+IgM (H+L) minimal-cross reaction to human) for 1h in a humid chamber

- 8. Wash in PBS
- 9. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.
- 10. Wash in PBS
- 11. Counterstain with Mayer's hemalum.

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