OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for BM4051

CD71 (TFRC) Mouse Monoclonal Antibody [Clone ID: VIP-1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	VIP-1
Applications:	IHC
Recommended Dilution:	**Immunohistochemistry on Frozen Sections:** 2-4 µg/ml (1/50-1/100). *Positive Control:* Human tonsil.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	KG-1 cells
Specificity:	Monoclonal antibody VIP-1 recognizes CD71 and is useful for the typing of leukemias and the detection of proliferating cells in frozen tissue sections. **Antigen Distribution:** Positive on activated T and B cells, macrophages and on proliferating cells. Negative on non-activated lymphocytes, monocytes and granulocytes.
Formulation:	Stock solution contains PBS, pH 7.2 with 0.02% Sodium Azide as preservative and 10 mg/ml BSA as stabilizer. State: Purified State: Lyophilized purified Ig fraction.
Reconstitution Method:	Restore with 0.5 ml distilled water (= 0.2 mg/ml stock solution).
Concentration:	0.2 mg/ml
Purification:	Affinity Chromatography.
Conjugation:	Unconjugated
Storage:	Aliquots of stock solution can be kept frozen at -20°C to -70°C. Do not freeze working dilutions. Avoid repeated freezing and thawing. Stability of stock solution: 1 year at -20°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	transferrin receptor

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Database Link: Entrez Gene 7037 Human
P02786

Background: CD71 is a homodimeric membrane glycoprotein consisiting of two disulfide-bonded 95kD chains. It is a type II membrane protein with a short aminoterminal cytoplasmic domain of 61 amino acid residues which mediates internalization and recycling, a single transmembrane region of 28 amino acid residues, and a large extracellular transferrin-binding domain of 671 residues. Other significant structural features include N-linked and O-linked glycans and the covalent attachment of palmitic acid to cystein residues close to the cytoplasmic face of the membrane.

Synonyms: TfR1, p90, Transferrin receptor protein 1

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