

Datasheet



Mouse mAb to **Keratin 5+14**
Clone **EBS-IF-001**
Isotype **IgG2a-κ**

Source

A hybrid (BALB/c x B6) mouse was immunized with a cytokeratin-enriched extract of feline tongue epithelium.
Fusion partner: Sp2/0.

Specifications

EBS-IF-001 Does not react with keratin polypeptides in immunoblotting. The specificity for keratin was established on the basis of antibody reactivity with intracytoplasmic intermediate filaments in epithelial, vimentin negative, human and feline cells. Distribution of the epitope strongly suggests that EBS-IF-001 reacts with keratins 5 and 14, most probably with a heterotypic complex formed by these keratins. EBS-IF-001 reacts positively with basal cells of all stratified epithelia, with myoepithelial cells and with most squamous cell carcinomas. It is useful in immunohistochemistry for typing of basal cells.



Figure 1: Cat tongue stained with EBS-IF-001 (frozen section)

Species reactivity

Positive: cat, human.

Applications

Demonstration of keratin 5 and 14 in immunohistochemistry on frozen sections and immunofluorescence tests.

Flow cytometry	Frozen sections	Immunofluorescence	Paraffin sections	Western blot
+	+	+	-	+

Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02 % sodium azide.

Stored at 4°C- 8°C, shelf life is at least 24 months after purchase.

Dilution advice

- Flow Cytometry (1-2 µg/million cells in 0.1 ml, fix cells in 4% PFA for 10 min, at 4°C, permeabilize with 0,2% saponin or digitonin for 15 min, at 4°C).
- Immunofluorescence (1-2 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; an appropriate antigen retrieval method for staining of formalin-fixed tissues has not been established to date).

Positive control

Tongue.

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References

- Ivanyi et al. *Am. J. Vet. Res.* **53**: 304-314 (1992).
- Balm A.J.M., *Eur. Arch. Otorhinolaryngol.* **253**: 227-233 (1996).

