Revision 1

#35404 Store at -20C

# Ikaros (D6N9Y) Rabbit mAb (Biotinylated)

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: | Entrez-Gene Id: |
|---|---|---|---|---|---|---|
| WB | H M | Endogenous | 50-70 | Rabbit IgG | #Q13422 | 10320 |

## Product Usage Information

| Application | Dilution |
|---|---|
| Western Blotting | 1:1000 |

## Storage

Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at –20°C. *Do not aliquot the antibody.*

## Specificity / Sensitivity

Ikaros (D6N9Y) Rabbit mAb (Biotinylated) recognizes endogenous levels of total Ikaros protein.

## Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro329 of human Ikaros protein.

## Product Description

This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Ikaros (D6N9Y) Rabbit mAb #14859.

| | |
|---|---|
| MW (kDa) | 50-70 |

## Background

The Ikaros family of zinc-finger DNA-binding proteins belongs to the Kruppel transcription factor superfamily. Ikaros proteins are characterized by the presence of an amino-terminal zinc finger DNA-binding domain and a carboxy-terminal dimerization domain. Members of the Ikaros family include Ikaros, Aiolos, Helios, EOS, and Pegasus (1). All family members can form homodimers and heterodimers with other members of the Ikaros family. Most also contain multiple isoforms that are generated as a result of differential splicing, with some isoforms behaving in a dominant negative manner upon dimerization (2).

Ikaros (IKZF1, LYF1) is the prototypical Ikaros family zinc-finger transcription factor and is expressed abundantly in lymphoid cells. Genetic studies in mice demonstrate that Ikaros is a tumor suppressor that is important for the normal development of B, T, natural killer, and dendritic cells (3,4). Additional studies show that imbalanced expression of different Ikaros isoforms, as well as mutations in the corresponding *IKAROS* gene, can be associated with a number of hematologic malignancies in humans (2,5,6).

## Background References

1. Perdomo, J. et al. (2000) *J Biol Chem* 275, 38347-54.
2. Rebollo, A. and Schmitt, C. (2003) *Immunol Cell Biol* 81, 171-5.
3. Georgopoulos, K. et al. (1997) *Annu Rev Immunol* 15, 155-76.
4. Nichogiannopoulou, A. et al. (1998) *Semin Immunol* 10, 119-25.
5. Tonnelle, C. et al. (2002) *Leuk Lymphoma* 43, 29-35.
6. Martinelli, G. et al. (2009) *J Clin Oncol* 27, 5202-7.

## Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

## Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

## Applications Key

**WB:** Western Blotting

## Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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