

## Product datasheet for **DM3547P**

### Galectin-7 Rat Monoclonal Antibody [Clone ID: 8J52]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	8J52
Applications:	WB
Recommended Dilution:	<b>Western Blot:</b> 1/500-1/1000.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2
Clonality:	Monoclonal
Immunogen:	Purified Recombinant Mouse Galectin-7
Specificity:	This antibody detects Mouse Galectin-7. Other species not tested.
Formulation:	0.2 µm filtered solution in PBS State: Purified State: Lyophilized purified IgG fraction from Culture Supernatant Stabilizer: None
Reconstitution Method:	Restore with 200 µl sterile PBS and the final concentration is 500 µg/ml.
Purification:	Protein A/G Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at -70°C. Following reconstitution store the antibody (in aliquots) at -20°C for 6 month. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	<u><a href="#">O54974</a></u>



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**Background:**

Galectins belong to a family of related beta-galactoside-binding lectins, also referred to as S-type or S-Lac lectins. Members of this family have been implicated in a variety of functions, including growth regulation, cell adhesion, migration, neoplastic transformation, and immune responses. Galectin 7 is thought to be involved in cell-cell and/or cell-matrix interactions necessary for normal growth control. Galectin 7 has been implicated in apoptosis and is believed to upregulate MMP9 and as such be involved in the progression of tumorigenesis.

The galectins are a family of beta-galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions. Differential and in situ hybridizations indicate that this lectin is specifically expressed in keratinocytes. It is expressed at all stages of epidermal differentiation (i.e., in basal and suprabasal layers). The protein was found mainly in stratified squamous epithelium. It is moderately repressed by retinoic acid. The antigen localized to basal keratinocytes, although it was also found at lower levels in the suprabasal layers, where it concentrated to areas of cell-to-cell contact. The cellular localization and its striking down-regulation in cultured keratinocytes imply a role in cell-cell and/or cell-matrix interactions necessary for normal growth control.

**Synonyms:**

Gal-7, HKL-14, PI7, LGALS7, PIG1, LGALS7B