

# Product Datasheet

## **Desmoglein-3 Antibody (DSG3/2838) [Janelia Fluor® 549] NBP3-08430JF549**

Unit Size: 100 ul

Store at 4C in the dark.

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**NBP3-08430JF549**

Desmoglein-3 Antibody (DSG3/2838) [Janelia Fluor® 549]

| Product Information |                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------|
| Unit Size           | 100 ul                                                                                      |
| Concentration       | Please see the vial label for concentration. If unlisted please contact technical services. |
| Storage             | Store at 4C in the dark.                                                                    |
| Clonality           | Monoclonal                                                                                  |
| Clone               | DSG3/2838                                                                                   |
| Preservative        | 0.05% Sodium Azide                                                                          |
| Isotype             | IgG1 Kappa                                                                                  |
| Conjugate           | Janelia Fluor 549                                                                           |
| Purity              | Protein A or G purified                                                                     |
| Buffer              | 50mM Sodium Borate                                                                          |

| Product Description     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene ID                 | 1830                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Gene Symbol             | DSG3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Species                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Marker                  | Squamous Cell Marker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Specificity/Sensitivity | Recognizes a protein of 130kDa, identified as Desmoglein-3 (DSG3). This monoclonal antibody is highly specific to Desmoglein-3 and does not cross-react with other members of the Desmoglein-family. DSG3 is a calcium-binding transmembrane glycoprotein component of desmosomes in vertebrate epithelial cells. Research has shown that DSG3 has a very high sensitivity (80%) and specificity (100%) in recognizing squamous cell carcinoma (SqCC). Therefore, DSG3 is considered a very important marker for lung SqCC and can be a useful ancillary marker to separate SqCC from other subtypes of lung cancer. Moreover, studies have shown that DSG3 expression in lung SqCC may indicate a poor prognosis. |
| Immunogen               | Recombinant fragment (around aa 379-491) human Desmoglein-3 protein (exact sequence is proprietary) (Uniprot: P32926)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Notes                   | Sold under license from the Howard Hughes Medical Institute, Janelia Research Campus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

| Product Application Details |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| Applications                | Immunohistochemistry-Paraffin, Protein Array                           |
| Recommended Dilutions       | Immunohistochemistry-Paraffin, Protein Array                           |
| Application Notes           | Optimal dilution of this antibody should be experimentally determined. |



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**Products Related to NBP3-08430JF549**

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|                |                                          |
|----------------|------------------------------------------|
| NBP2-54744PEP  | Desmoglein-3 Recombinant Protein Antigen |
| 6507-IL-010/CF | IL-4 [Unconjugated]                      |
| 11167-DM-050   | Desmoglein-3 [Unconjugated]              |
| AF748          | E-Cadherin Antibody [Unconjugated]       |

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**Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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