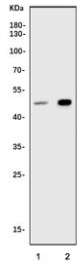
# SMAD7 Antibody / MADH7 (RQ6339)

| Catalog No. | Formulation | Size |
|---|---|---|
| RQ6339 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | O15105 |
| **Applications** | Western blot: 0.5-1ug/ml<br>Direct ELISA: 0.1-0.5ug/ml |
| **Limitations** | This SMAD7 antibody is available for research use only. |




Western blot testing of human 1) K562 and 2) HEK293 cell lysate with SMAD7 antibody. Expected molecular weight: 45-55 kDa.

## Description

Mothers against decapentaplegic homolog 7 or SMAD7 is a protein that in humans is encoded by the SMAD7 gene. The protein encoded by this gene is a nuclear protein that binds the E3 ubiquitin ligase SMURF2. Upon binding, this complex translocates to the cytoplasm, where it interacts with TGF-beta receptor type-1 (TGFBR1), leading to the degradation of both the encoded protein and TGFBR1. Expression of this gene is induced by TGFBR1. Variations in this gene are a cause of susceptibility to colorectal cancer type 3 (CRCS3). Several transcript variants encoding different isoforms have been found for this gene.

## Application Notes

Optimal dilution of the SMAD7 antibody should be determined by the researcher.

## Immunogen

Recombinant human protein (amino acids R353-Q388) was used as the immunogen for the SMAD7 antibody.

## Storage

After reconstitution, the SMAD7 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.


Copyright © NSJ Bioreagents. All rights reserved.