

Technical Data Sheet

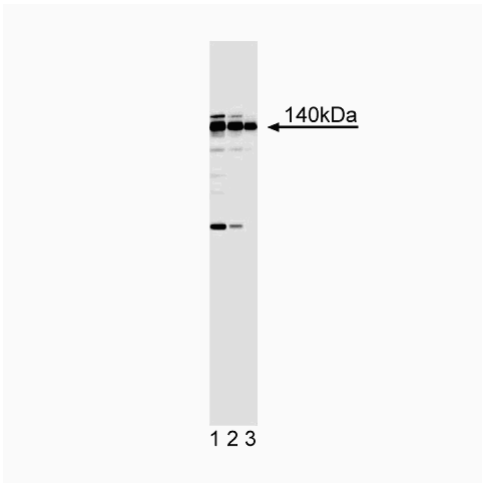
Purified Mouse Anti-Human Sur-2

Product Information

Material Number:	550429
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	D27-1805
Immunogen:	Human Sur-2 synthetic peptide
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Target MW:	140 kDa
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

SUR-2 (suppressor of ras) is a gene that was originally discovered in the vulval signaling pathway of the nematode *Caenorhabditis elegans*. Genetic studies suggest that the product of the SUR-2 gene encodes a protein Sur-2, that acts downstream of the Raf/Map kinase pathway. The human homolog of SUR-2 (hSUR-2) was shown to interact with the E1A zinc finger domain from adenovirus. The adenovirus E1A protein can bind to a number of cellular proteins to alter cell cycle progression. E1A exerts this change in the cell cycle by interacting with the transcriptional machinery of the cell. *In vitro* studies indicate that Sur-2 interacts with the E1A zinc finger protein and the Srb/Mediator transcriptional multiprotein complex. These studies suggest that Sur-2 may play a role as a bridge between E1A and the Srb/Mediator multiprotein complex. However, the roles of Sur-2 in regulating the transcriptional activity of the Srb/Mediator complex and E1A remain to be fully elucidated. Sur-2 has been reported to migrate in SDS/PAGE at 150 kDa, but our studies indicate that it migrates at approximately 140 kDa. The antibody recognizes human Sur-2. A synthetic peptide corresponding to the N-terminus region of human Sur-2 (METQLQSIFEEVVKTEVIEC) was used as immunogen.



**Western blot analysis of Sur-2.** HeLa nuclear extracts were probed with anti-Sur-2 (clone D27-1805, Cat. No. 550429) at concentrations of 5.0 µg/ml (lane 1), 1.0 µg/ml (lane 2), and 0.2 µg/ml (lane 3). Sur-2 is detected at ~140 kDa.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4°C.

Application Notes

Application

Western blot	Routinely Tested
--------------	------------------

Recommended Assay Procedure:

Applications include western blot analysis (0.2-5.0 µg/ml). HeLa nuclear extracts are recommended as a positive control.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit [bdbiosciences.com/how\\_to\\_order/](http://bdbiosciences.com/how_to_order/)

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2008 BD



## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharming/protocols](http://www.bdbiosciences.com/pharming/protocols) for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

## References

- Blobel GA. CREB-binding protein and p300: molecular integrators of hematopoietic transcription. *Blood*. 2000; 95(1):745-755.(Biology)
- Boyer TG, Martin ME, Lees E, Ricciardi RP, Berk AJ. Mammalian Srb/Mediator complex is targeted by adenovirus E1A protein. *Nature*. 1999; 399(6733):276-279. (Biology)
- Singh N, Han M. sur-2, a novel gene, functions late in the let-60 ras-mediated signaling pathway during *Caenorhabditis elegans* vulval induction. *Genes Dev*. 1995; 9(18):2251-2265.(Biology)