Technical Data Sheet

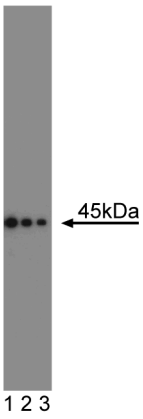
# Purified Mouse Anti-CD95

## Product Information

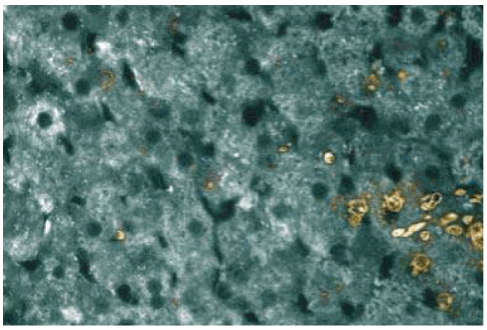
| | |
|---|---|
| **Material Number:** | **610197** |
| **Alternate Name:** | Fas, APO-1 |
| **Size:** | 50 µg |
| **Concentration:** | 250 µg/ml |
| **Clone:** | 13/Fas |
| **Immunogen:** | Human Fas aa. 1-163 |
| **Isotype:** | Mouse IgG2a, κ |
| **Reactivity:** | QC Testing: Human<br>Tested in Development: Mouse, Rat, Dog, Chicken |
| **Target MW:** | 45 kDa |
| **Storage Buffer:** | Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide. |

## Description

CD95 is a member of a family of cell surface receptors that includes tumor necrosis factor receptor (TNF-R), nerve growth factor receptor (NGF-R), CD40, CD27, CD30, and 4-1BB. Both murine and human Fas genes have been cloned and reportedly share 60% similarity in their amino acid sequences. CD95 (Fas) is a cell surface apoptosis-signaling molecule that is widely expressed in sites such as thymus, liver, heart, and ovary. Abnormalities in the Fas gene correlate with autoimmune features in mice and with unusually high levels of lymphocyte apoptosis in HIV-infected humans. Genetic studies have localized the Fas gene near the lpr (lymphoproliferation disease) locus on mouse chromosome 19 and further characterization reportedly has revealed that lpr is a mutation affecting the function of the Fas gene.




***Western blot analysis of CD95 on a Daudi cell lysate (Human B lymphoblast; ATCC CCL-213).*** *Lane 1: 1:5,000, lane 2: 1:10,000, lane 3: 1: 20,000 dilution of the Purified Mouse anti- CD95 antibody.*



***Immunohistochemical staining of a formalin-fixed rabbit liver section.***

## Preparation and Storage

Store undiluted at -20°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

## Application Notes

**Application**

| | |
|---|---|
| Western blot | Routinely Tested |
| Immunohistochemistry-formalin (antigen retrieval required) | Tested During Development |
| Immunofluorescence | Not Recommended |
| Immunoprecipitation | Not Recommended |

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**Recommended Assay Procedure:**

For Western Blot and immunohistochemistry resources, please reference http://www.bdbiosciences.com/resources/cellbiology/index.jsp

## Suggested Companion Products

| Catalog Number | Name | Size | Clone |
|---|---|---|---|
| 554002 | HRP Goat Anti-Mouse Ig | 1.0 ml | (none) |
| 612743 | Apoptosis Sampler Kit II | 10 µg | (none) |

## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/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.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

## References


Arnold R, Seifert M, Asadullah K, Volk HD. Crosstalk between keratinocytes and T lymphocytes via Fas/Fas ligand interaction: modulation by cytokines.. *J Immunol.* 1999; 162(12):7140-7147. (Biology: Flow cytometry)

Itoh N, Yonehara S, Ishii A, et al. The polypeptide encoded by the cDNA for human cell surface antigen Fas can mediate apoptosis. *Cell.* 1991; 66(2):233-243. (Biology)

MacLaren A, Clark W, Gillespie DA. v-Jun sensitizes cells to apoptosis by a mechanism involving mitochondrial cytochrome C release.. *Oncogene.* 2000; 19(51):5906-5918. (Biology: Western blot)

Rosen K, Coll ML, Li A, Filmus J. Transforming growth factor-alpha prevents detachment-induced inhibition of c-Src kinase activity, Bcl-XL down-regulation, and apoptosis of intestinal epithelial cells.. 2001; 276(40):37273-37279. (Biology: Western blot)

Zhuang S, Demirs JT, Kochevar IE. Protein kinase C inhibits singlet oxygen-induced apoptosis by decreasing caspase-8 activation.. *Oncogene.* 2001; 20(46):6764-6776. (Biology: Immunofluorescence, Immunoprecipitation, Western blot)



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