

Technical Data Sheet

Purified Mouse Anti-LRP

Product Information

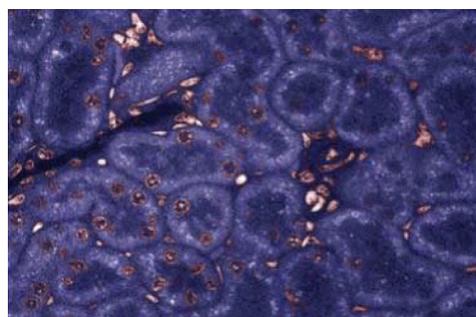
Material Number:	610512
Size:	50 µg
Concentration:	250 µg/ml
Clone:	42/LRP
Immunogen:	Human LRP aa. 403-592
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Cow, Dog, Rabbit
Target MW:	110 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Drugs that selectively attack dividing cells are often used in cancer therapy. However, small cell populations do not die, but develop resistance to a variety of toxic drugs. Multidrug resistance is achieved by gene amplification of specific membrane-bound transport ATPases that shuttle the drugs out of cells. Some multidrug-resistant cancer cells express a protein of 110 kDa named LRP (**L**ung **R**esistance-related **P**rotein). LRP expression might be an indicator of prognosis after chemotherapy in acute myeloid leukemia and ovarian carcinoma. The LRP gene encodes a protein of 896 amino acids with significant homology to the major vault protein from *Dictyostelium discoideum*. Although ubiquitously expressed, LRP is most abundant in epithelial cells.



Western blot analysis of LRP on human endothelial lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of LRP.



Immunofluorescence staining of Rabbit Kidney

Preparation and Storage

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

Store undiluted at -20°C.

Application Notes

Application

Western blot	Routinely Tested
Immunohistochemistry	Tested During Development
Immunoprecipitation	Tested During Development
Immunofluorescence	Tested During Development

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Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal
611450	Human Endothelial Cell Lysate	500 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/pharming/en/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

- Kickhoefer VA, Rome LH. The sequence of a cDNA encoding the major vault protein from *Rattus norvegicus*. *Gene*. 1994; 151(1-2):257-260.(Biology)
- List AF, Spier CS, Grogan TM. Overexpression of the major vault transporter protein lung-resistance protein predicts treatment outcome in acute myeloid leukemia. *Blood*. 1996; 87(6):2464-2469.(Biology)
- Rybarova S, Batekova M, Hodorova I. Immunohistochemical detection of LRP protein in the normal human lung. *Bratisl Lek Listy*. 2002; 102(2):66-72. (Clone-specific: Immunohistochemistry)
- Scheffer GL, Wijngaard PL, Flens MJ. The drug resistance-related protein LRP is the human major vault protein. *Nat Med*. 1995; 1(6):578-582.(Biology)