eth_getTransactionByBlockNumberAndIndex

Returns information about a transaction given block number and transaction index position.

Parameters

- block parameter
- : [Required
-] A hexadecimal block number, or one of the string tagslatest
- ,earliest
- ,pending
- ,safe
- , orfinalized
- . See thedefault block parameter
- .
- transaction index position
- : [Required
-] A hexadecimal of the integer representing the position in the block.

Returns

A transaction object, or null when no transaction was found. The transaction object will consist of the following keys and their values:

- accessList
- : [optional
-] A list of addresses and storage keys accessed by the transaction. Seeaccess list transactions
- .
- blockHash
- : 32 bytes. A hash of the block including this transaction.null
- when it's pending.
- blockNumber
- : The number of the block including this transaction.null
- when it's pending.
- chainID
- : [optional
-] chain ID specifying the network. Returned only forEIP-1559 transactions
- .
- from
- : 20 bytes. The address of the sender.
- gas
- : Gas provided by the sender.
- gasPrice
- : Gas price provided by the sender in Wei.
- hash
- : 32 bytes. The hash of the transaction.
- input
- : The data sent along with the transaction.
- maxPriorityFeePerGas
- : [optional
-] Maximum fee, in Wei, the sender is willing to pay per gas above the base fee. SeeEIP-1559 transactions
- .
- maxFeePerGas
- : [optional
-] Maximum total fee (base fee + priority fee), in Wei, the sender is willing to pay per gas. SeeEIP-1559 transactions
- .
- nonce
- : The number of transactions made by the sender prior to this one.
- r
- : 32 bytes. The ECDSA signaturer
- .
- s
- : 32 bytes. The ECDSA signatures
- .
- to
- : 20 bytes. The address of the receiver.null
- when it's a contract creation transaction.
- transactionIndex
- : The transaction's index position in the block, in hexadecimal.null
- when it's pending.
- type
- : Thetransaction type
- .
- v
- : The ECDSA recovery ID.
- value
- : The value transferred in Wei.

Example

ReplaceYOUR-API-KEY with an API key from yourInfura dashboard .

Request

- cURL
- WSS

```
curl https://arbitrum-mainnet.infura.io/v3/YOUR-API-KEY \ -X POST \ -H "Content-Type: application/json" \ -d
'{"jsonrpc":"2.0","method":"eth_getTransactionByBlockNumberAndIndex","params": ["0x5BAD55","0x0"],"id":1}' wscat -c wss://arbitrum-mainnet.infura.io/ws/v3/YOUR-API-
KEY -x '{"jsonrpc":"2.0","method":"eth_getTransactionByBlockNumberAndIndex","params": ["0x5BAD55","0x0"],"id":1}'
```

Response

- JSON

{ "id" : 1, "jsonrpc" : "2.0", "result" : { "blockHash" : "0xb3b20624f8f0f86eb50dd04688409e5cea4bd02d700bf6e79e9384d47d6a5a35", "blockNumber" : "0x5bad55", "chainId" : "0x1", "from" : "0xfbb1b73c4f0bda4f67dca266ce6ef42f520fbb98", "gas" : "0x249f0", "gasPrice" : "0x174876e800", "hash" : "0x8784d99762bccd03b2086eabccee0d77f14d05463281e121a62abfebcf0d2d5f", "input" : "0x6ea056a90000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000bd8d7fa6f8cc00", "nonce" : "0x5e4724", "r" : "0xd1556332df97e3bd911068651cfad6f975a30381f4ff3a55df7ab3512c78b9ec", "s" : "0x66b51cbb10cd1b2a09aaff137d9f6d4255bf73cb7702b666ebd5af502ffa4410", "to" : "0x4b9c25ca0224aef6a7522cabdbc3b2e125b7ca50", "transactionIndex" : "0x0", "type" : "0x0", "v" : "0x25", "value" : "0x0" } }

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